

County of Orange Health Care Agency

Orange County Mortality Data 2000



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COUNTY OF ORANGE HEALTH CARE AGENCY

PUBLIC HEALTH SERVICES

*Excellence
Integrity
Service*

November 2002

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To our colleagues in public health,

We are pleased to announce the availability of our statistical document, "Orange County Mortality Data, 2000." This information is compiled by the State of California from death certificates filed with the Birth and Death Registration of the County of Orange Health Care Agency and other health jurisdictions. This document is the latest in an annual series and is one of the crucial elements in monitoring the health status of Orange County. It also provides data for the development of policies to improve the health of Orange County's diverse population.

The information presented in this publication is considered to be the official data for 2000. Unless otherwise noted, reference is made to deaths to *Orange County residents*, regardless of where the event occurred. Similarly, deaths occurring within the county, but to residents of other jurisdictions, are *not* included in this report.

The report is available and can be downloaded from the Epidemiology and Assessment website, <http://www.ochealthinfo.com/epi/statistics.htm>.

Thank you for your interest in this document. We encourage you to make other interested colleagues aware of its publication. If you would like more information, please feel free to contact Epidemiology and Assessment at (714) 834-8180.

Sincerely,

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**County of Orange
Health Care Agency**

Orange County Mortality Data, 2000

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Orange County Mortality Data, 2000: Executive Summary

Important note to readers of this report

Significant changes in coding causes of death and in age adjustment were implemented with 1999 mortality data and have continued with the 2000 mortality data . It is important to keep in mind that these changes make direct comparisons with mortality data from years 1998 and prior of uncertain validity, with the exception of comparisons of deaths due to all causes. A brief explanation of the changes follows.

International Classification of Diseases (ICD) 10th Revision

The International Classification of Diseases (ICD) 10th Revision has significant differences from the 9th revision: 1) changes in the actual codes, with a near doubling of the number of codes available; 2) changes in some of the methods for assigning the underlying cause of death; and 3) changes in the grouping of codes to determine leading causes of death. Therefore, there is not a one to one correspondence between codes used in the 9th and 10th revisions; similarly, there may not be a one to one correspondence between groups of causes (as in the leading causes of death).

The federal government calculated “comparability ratios” for the change from ICD-9 to ICD-10 and uses them for trend analysis. However, the State of California has chosen not to use comparability ratios, and it is not clear how accurate these are at the county level. Among the most significant changes are a large decrease in deaths attributed to *Influenza and pneumonia*, estimated at 30%, and an increase in those due to *Alzheimer’s disease*, approximately 55%.

Age adjustment

Age adjustment is a statistical procedure used to remove the affect of different age distributions when comparing populations with different age structures (see the “Computation of Rates” section). A “standard population” is chosen for this procedure. Prior to 1999, most reports of mortality data have used the 1940 United States standard population (1940 standard) for age adjustment. Beginning with the 1999 mortality report, the federal government began using the year 2000 United States standard population (2000 standard), which is also used in this report. Care must be exercised in comparing age-adjusted data from different reports to be sure that the same population standard was used. Since the age distribution of the 2000 standard is shifted to older age groups, reflecting the growth in this population segment since 1940, and because death rates increase with age, the age-adjusted death rates using the new standard are, in most instances, larger than those using the 1940 standard. Please see “Age Standardization of death Rates: Implementation of the Year 2000 Standard” published by the National Center for Health Statistics (available at: http://www.cdc.gov/nchs/data/nvsr/nvsr47/nvs47_03.pdf) for more information about how the change in population standard affects trends and comparisons of racial/ethnic death rates.

Use of State of California mortality data file

Until 1999, Orange County used a locally generated file for analysis of mortality data. Beginning with 1999 data and continuing with the 2000 data, the file provided by the State of California is used. The use of the State data file as opposed to the Orange County data file ensures greater consistency between Orange County and California published reports.

Summary of 2000 mortality data

Total deaths and crude death rate

There were 16,487 deaths among Orange County residents in 2000, a decrease of less than 1% from the 16,644 deaths that were registered in 1999. The crude death rate was 577.1 per 100,000 in 2000, a decrease of 1.5% from 1999 (585.6 per 100,000).

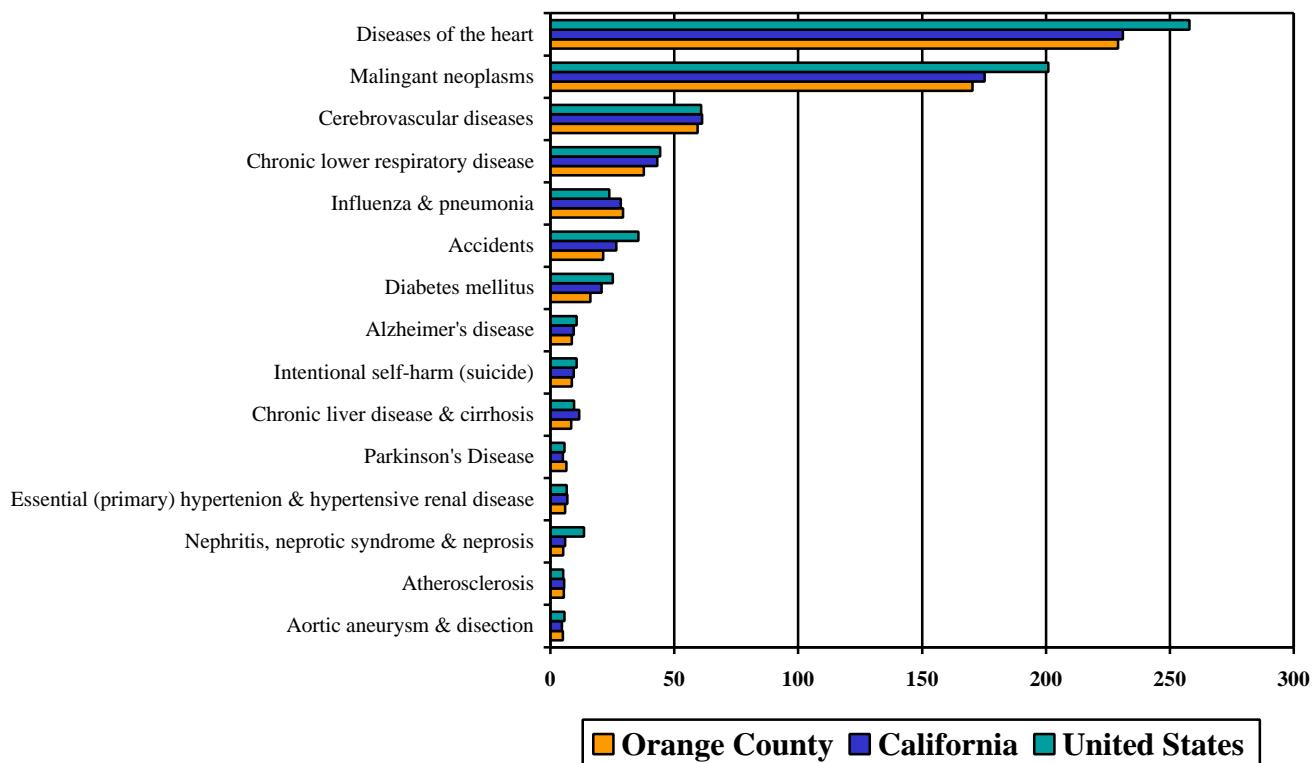
Fifteen leading causes of death

The fifteen leading causes of death accounted for 87.6% of all deaths in 2000. *Diseases of the heart* remained the leading cause of death among Orange County residents, accounting for 5,181 (31.4%) deaths. *Malignant neoplasms* ranked second with 3,992 deaths (24.2%). Cancers of the trachea, bronchus, and lung accounted for the largest share of *Malignant neoplasms* with 981 deaths (24.6%), followed by lymphomas, leukemias and related cancers with 433 deaths (10.8%). The third leading cause of death was *Cerebrovascular diseases*, with 1,338 deaths, accounting for 8.1% of deaths.

Comparison to California and United States 2000 age-adjusted death rates

The overall age-adjusted death rate for Orange County in 2000 was 711.2 per 100,000. The corresponding California rate of 755.3 was slightly higher and the United States (U.S.) rate of 872.0 was significantly higher than Orange County (Figure 1). Of the fifteen leading causes of death in Orange County, twelve of the Orange County age-adjusted rates were lower than the United States and twelve were lower than California.

Figure 1. Comparison of 2000 Age -Adjusted Rates



Gender differences

There were 8,604 female and 7,883 male deaths among Orange County residents in 2000. The ranking of the leading causes of death in year 2000 for males and females is shown in Table 1.

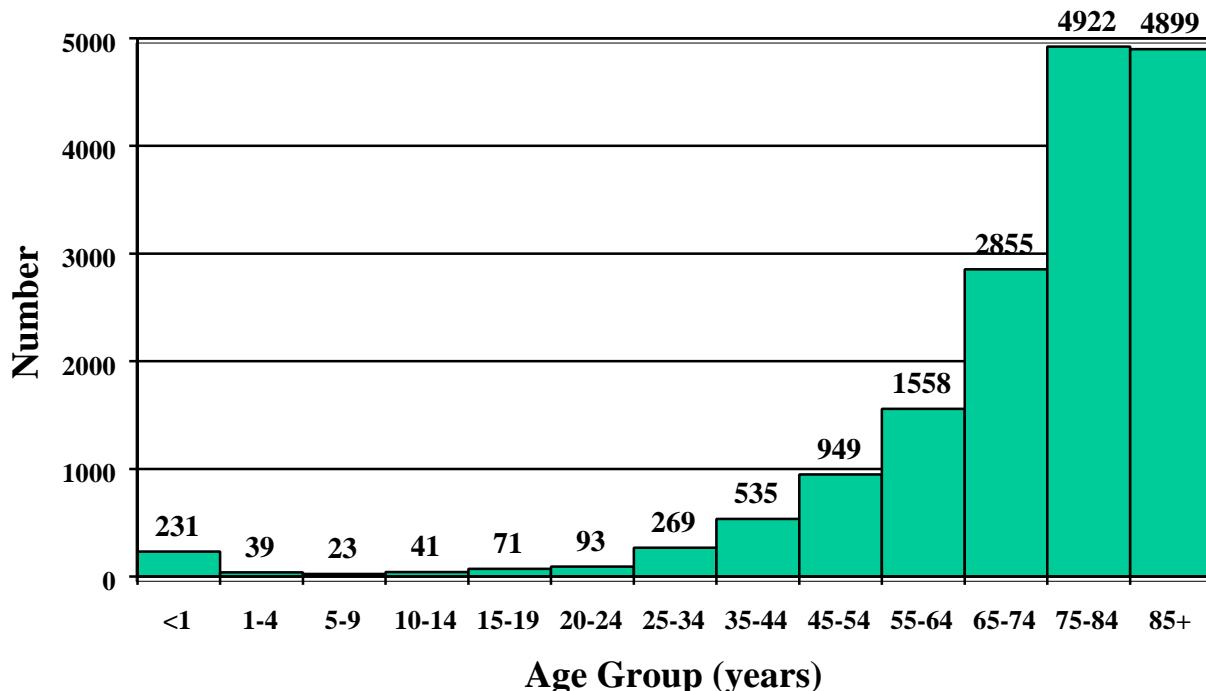
Table 1. Fifteen Leading Causes of Death by Gender, Orange County, 2000

Orange County		Males		Females	
Rank	Cause of death	Rank	Cause of death	Rank	Cause of death
1	Diseases of the heart	1	Diseases of the heart	1	Diseases of the heart
2	Malignant neoplasms	2	Malignant neoplasms	2	Malignant neoplasms
3	Cerebrovascular diseases	3	Cerebrovascular diseases	3	Cerebrovascular diseases
4	Chronic lower respiratory disease	4	Chronic lower respiratory disease	4	Chronic lower respiratory disease
5	Influenza and pneumonia	5	Accidents	5	Influenza and pneumonia
6	Accidents	6	Influenza and Pneumonia	6	Alzheimer's disease
7	Diabetes mellitus	7	Diabetes mellitus	7	Accidents (unintentional injuries)
8	Alzheimer's disease	8	Intentional self-harm (suicide)	8	Diabetes mellitus
9	Intentional self-harm (suicide)	9	Chronic liver disease and cirrhosis	9	Essential hypertension and hypertensive renal disease
10	Chronic liver disease and cirrhosis	10	Alzheimer's disease	10	Atherosclerosis
11	Parkinson's disease	11	Parkinson's disease	11	Chronic liver disease and cirrhosis
12	Essential hypertension and hypertensive renal disease	12	Aortic aneurysm and dissection	12	Intentional self-harm (suicide)
13	Nephritis, nephrotic syndrome and nephrosis	13	Nephritis, nephrotic syndrome and nephrosis	13	Parkinson's disease
14	Atherosclerosis	14	Congenital malformations and chromosomal abnormalities	14	Nephritis, nephrotic syndrome and nephrosis
15	Aortic aneurysm and dissection	15	Certain conditions originating in the perinatal period	15	Congenital malformations and chromosomal abnormalities

Deaths by age group

The majority (59.6%) of all deaths among Orange County residents in 2000 were among those aged 75 years and older. Please see Figure 2.

Figure 2. Orange County Deaths by Age Group



Among infants less than 1 year of age, the leading cause of death was *Congenital malformation, deformations, and chromosomal abnormalities* (73 deaths), followed by *Disorders relating to short gestation and low birth weight* (21 deaths), *Sudden infant death syndrome* (12 deaths), and *Diseases of the circulatory system* (12).

The leading cause of deaths for all age groups from 1-4 years to 25-34 years was *Accidents*. For the age group 35-44 years, *Malignant neoplasms* (130) was the leading cause of death and *Accidents* (93) was the second leading cause of death.

Intentional self-harm (suicide) was among the 15 leading causes of death for all age groups from 10-14 through the 65-74 year age group. The number of *suicides* surpassed *assault (homicide)* in each of these age groups except for the 15-19 year age group (for which *assault* was the 2nd leading cause and *suicide* was the 4th leading cause). See Table 2 for ranking of *suicide* by age group.

Table 2. Ranking of *Intentional self-harm (suicide)* by Age Group

Age Group (years)	Suicide rank	Number of suicides
10-14	5	1
15-19	4	5
20-24	2	18
25-34	3	42
35-44	4	45
45-54	4	50
55-64	8	27
65-74	11	20
75-84	--	22
85+	--	6

Assault (homicide) was a leading cause of death for age groups from persons 1-4 years of age through 55-64 years, except for persons 5-9 years of age. *Homicide* was the second leading cause of death for persons in the 15-19 year age group.

Human immunodeficiency virus(HIV) infection, the 21st leading cause of death for all ages, was ranked highest among 35-44 year-olds (ranked 5th, 23 deaths). Additionally, *HIV infection* was a leading cause of death for 20-24 year olds (ranked 6th, 1 death), 25-34 year-olds (ranked 6th, 11 deaths), 45-54 year olds (ranked 10th, 8 deaths), and 55-64 year olds (ranked 13th, 8 deaths).

Leading causes by race/ethnicity

Non-Hispanic Whites accounted for 82.0% of all Orange County deaths in the year 2000, while Hispanics accounted for 9.4%, Southeast Asians 2.5%, Other Asians 4.4%, African Americans 1.2%, and others less than 1%.

Crude rates of death per 100,000 population were as follows: Non-Hispanics Whites 922.9, African Americans 479.2; Asians 295.9, and Hispanics 176.9.

Diseases of the heart was the leading cause of death for Whites, Hispanics and African Americans. *Malignant neoplasms* was the leading cause of death for Asians with 320 deaths; however, *Diseases of the heart* was a close second with 316 deaths.

Age-adjusted rates by race/ethnicity

Age-adjusted rates differed dramatically for many of the leading causes of death. African Americans had the highest death rate due to *Diseases of the heart* (365.8 per 100,000), followed by Whites (256.9 per 100,000), Asians (169.1 per 100,000), and Hispanics (168.0 per 100,000). African Americans also had the highest death rate due to *Malignant neoplasms* (260.7 per 100,000), followed by Non-Hispanic Whites (200.2 per 100,000), Asians (128.0 per 100,000), and Hispanics (116.9 per 100,000). Age-adjusted rates for Hispanics were lower than those for Non-Hispanic Whites for the majority of the 15 leading causes except *Diabetes mellitus*; *Chronic liver disease & cirrhosis*; *Nephritis, nephrotic syndrome and nephrosis*; and *Essential (primary) hypertension & hypertensive renal disease*.

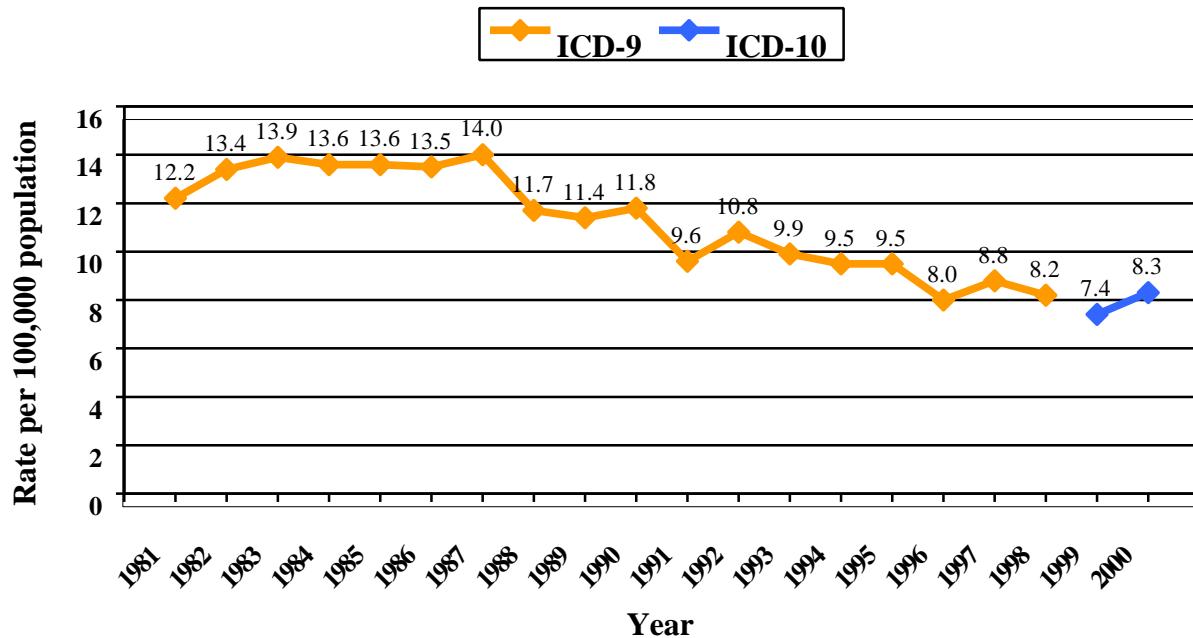
Injury mortality (external causes of death)

Intentional self-harm (suicide) was the leading external cause of death in Orange County in 2000, with 236 deaths. The second leading external cause of death was *Motor vehicle accidents* with 198 deaths. These were followed by *Accidental poisoning* (135 deaths), *Falls* (107 deaths), and *Assault (homicide)* (60 deaths). Among victims of *Falls*, 68% of deaths were among those aged 75 years and older. There were 51 pedestrian deaths, 18 motorcyclist deaths, and 9 pedal cyclist deaths. A total of 22 deaths by *Accidental drowning* occurred; of these, 3 (13.6%) were among children aged 1-4 years of age (no drowning deaths in infants in 2000).

Firearms were involved in 142 deaths: 104 suicides, 31 homicides, 4 accidental deaths, 2 during a legal intervention, and 1 death for which intent was undetermined. Firearms were used in 44.1% of suicides and 51.7% of homicides.

Figure 3 shows that in the last 20 years, the suicide rate has decreased 32% from 12.2 per 100,000 in 1981 to 8.3 in 2000 with a high of 14.0 in 1987 and a low of 7.4 in 1999. In 1999, the underlying cause of death classification schemes change from ICD-9 to ICD-10; however, the classification of suicide is thought to be comparable between the two schemes based on compatibility ratios published by the National Center for Health Statistics.

Figure 3. Intentional Self-Harm (Suicide) Mortality Rate, Orange County, 1981-2000



Section 1

Deaths by Age Group

Age-adjusted Death Rates for 15 Leading Causes of Death Comparing Orange County with California and the United States (2000)

Cause of Death		Orange County	California¹	United States²
All causes.....		711.2	755.3	872.0
Diseases of heart (I00-I09, I11, I13, I20-I51)	229.1	231.1	257.9	
Malignant neoplasms (C00-C97)	170.3	175.3	201.0	
Cerebrovascular diseases (I60-I69)	59.4	61.2	60.8	
Chronic lower respiratory diseases (J40-J47)	37.7	43.1	44.3	
Influenza & pneumonia (J10-J18)	29.3	28.4	23.7	
Accidents (V01-X59, Y85-Y86)	21.3	26.6	35.5	
Diabetes mellitus (E10-E14)	16.2	20.6	25.2	
Alzheimer's disease (G30)	14.1	15.1	18.0	
Intentional self-harm (suicide) (X60-X84, Y87.0)	8.7	9.4	10.6	
Chronic liver disease & cirrhosis (K70, K73-K74)	8.4	11.6	9.6	
Parkinson's disease (G20-G21)	6.4	5.1	5.7	
Essential (primary) hypertension & hypertensive renal disease (I10, I12)	5.9	6.8	6.6	
Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	5.2	6.0	13.5	
Atherosclerosis (I70)	5.4	5.6	5.2	
Aortic aneurysm & dissection (I71)	5.1	4.7	5.7	

¹ State of California, Department of Finance, 1999-2000 Population: 1997-2040 Population projection by Age, Sex, and Race/Ethnic Detail, December 1998. (<http://www.dhs.ca.gov/hisp/chs/OHIR/vssdata/2000data/2000MStateEX.htm>)

² Minino AM, Arias E, Kochanek KD, Murphy SL, Smith BL. Deaths: Final Data for 2000. National vital statistics reports; vol 50 no 15 Hyattsville, Maryland: National Center for Health Statistics. 2002. (http://www.cdc.gov/nchs/data/nvsr/nvsr50/nvsr50_15.pdf)

Note: Orange County rates are calculated from population data that are based on estimates from the 2000 Census (see appendix). California and United States rates are computed using postcensal estimates based on the 1990 Census, estimated as of July 1, 2000. Detailed populations from the 2000 Census were not available for California or the United States when this report was prepared. Differences between the 2000 enumerated population and the population estimates for 2000 used in this report for California and the United States could result in underestimation or overestimation of death rates.

**Fifteen Leading Causes of Death
Orange County Residents, 2000**

All ages

Rank	Cause of Death & ICD-10 Codes	Number	Rate¹
1	Diseases of heart (I00-I09, I11, I13, I20-I51)	5,181	181.4
2	Malignant neoplasms (C00-C97)	3,992	139.7
3	Cerebrovascular diseases (I60-I69)	1,338	46.8
4	Chronic lower respiratory diseases (J40-J47)	952	33.3
5	Influenza & pneumonia (J10-J18)	652	22.8
6	Accidents (V01-X59, Y85-Y86)	567	19.8
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	198	6.9
-	All other accidents	369	12.9
7	Diabetes mellitus (E10-E14)	376	13.2
8	Alzheimer's disease (G30)	311	10.9
9	Intentional self-harm (suicide) (X60-X84, Y87.0)	236	8.3
10	Chronic liver disease & cirrhosis (K70, K73-K74)	208	7.3
11	Parkinson's disease (G20-G21)	142	5.0
12	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	132	4.6
13	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	120	4.2
14	Atherosclerosis (I70)	119	4.2
15	Aortic aneurysm & dissection (I71)	116	4.1
-	All other causes	2,045	71.6
Total		16,487	577.1

¹ Mortality rate is calculated per 100,000 population in Orange County only.

Population Source: State of California, Department of Finance, *County Population Estimates and Components of Change, July 1, 2000-2001, with Historical Estimates, 1990-2000*. Sacramento, California, January 2002.

Fifteen Leading Causes of Death¹

Orange County Residents, 2000

Under one year of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate²</u>
1	Congenital malformations & chromosomal abnormalities (Q00-Q99).....	73	171.6
2	Disorders relating to short gestation & low birth weight (P07).....	21	49.4
3	Diseases of the circulatory system (I00-I99).....	12	28.2
3	Sudden infant death syndrome (R95).....	12	28.2
5	Respiratory distress of newborn (P22)	9	21.2
6	Newborn affected by complications of placenta, cord & membranes (P02).....	7	16.5
7	Bacterial sepsis of newborn (P36)	6	14.1
7	Neonatal hemorrhage (P50-P52, P54).....	6	14.1
7	Newborn affected by maternal complications of pregnancy (P01).....	6	14.1
10	Atelectasis (P28.0, P28.1)	5	11.8
11	Gastritis, duodenitis, and non-infective enteritis & colitis (K29, K50-K55).....	4	--
11	Accidents (V01-X59, Y85-Y86)	4	--
-	 <i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79,		
-	 V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	2	--
-	 <i>All other accidents</i>	2	--
13	Hernia of abdominal cavity & intestinal obstruction		
-	 without hernia (K40-K46, K56).....	3	--
14	Meningococcal infections (A39).....	2	--
14	Malignant neoplasms (C00-C97).....	2	--
14	Diseases of the blood & blood-forming organs & certain disorders	--	--
-	 involving the immune mechanism (D50-D89)	2	--
14	Influenza & pneumonia (J10-J18).....	2	--
14	Slow fetal growth & malnutrition (P05).....	2	--
14	Congenital pneumonia (P23).....	2	--
14	Hematological disorders (P60-P61)	2	--
14	Necrotizing enterocolitis of newborn (P77).....	2	--
-	 <i>All other causes</i>.....	47	110.5
	Total	231	543.1

Rates not calculated for fewer than five deaths.

¹ Infant deaths are based on the Federal list of 130 selected causes

² These are infant death (not mortality) rates; rates are per 100,000 Orange County population in this age group

**Fifteen Leading Causes of Death
Orange County Residents, 2000**

1 - 4 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate¹</u>
1	Accidents (V01-X59, Y85-Y86)	9	5.2
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	3	--
-	All other accidents	6	3.4
2	Malignant neoplasms (C00-C97)	8	4.6
3	Congenital malformations & chromosomal abnormalities (Q00-Q99).....	5	2.9
4	Diseases of heart (I00-I09, I11, I13, I20-I51)	4	--
4	Assault (homicide) (X85-Y09, Y87.1)	4	--
6	Chronic lower respiratory diseases (J40-J47)	1	--
-	All other causes	8	4.6
Total		39	22.4

Rates not calculated for fewer than five deaths.

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

**Fifteen Leading Causes of Death
Orange County Residents, 2000**
5 - 9 years of age

Rank	Cause of Death & ICD-10 Codes	Number	Rate¹
1	Accidents (V01-X59, Y85-Y86)	10	4.3
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	5	2.1
-	All other accidents	5	2.1
2	Malignant neoplasms (C00-C97)	7	3.0
3	Human immunodeficiency virus (HIV) disease (B20-B24)	1	--
3	Diabetes mellitus (E10-E14).....	1	--
3	Diseases of heart (I00-I09, I11, I13, I20-I51)	1	--
3	Epilepsy (G40).....	1	--
3	Other diseases of the stomach & duodenum (K31).....	1	--
3	Hanging, strangulation & suffocation, undetermined intent (Y20).....	1	--
Total		23	9.9

Rates not calculated for fewer than five deaths.

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

**Fifteen Leading Causes of Death
Orange County Residents, 2000**

10 - 14 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate</u> ¹
1	Accidents (V01-X59, Y85-Y86)	9	4.4
-	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	3	--
-	<i>All other accidents</i>	6	4.4
2	Malignant neoplasms (C00-C97)	8	3.9
3	Congenital malformations & chromosomal abnormalities (Q00-Q99).....	5	2.4
4	Diseases of heart (I00-I09, I11, I13, I20-I51)	2	--
4	Chronic lower respiratory disease (J40-J47).....	2	--
5	Septicemia (A40-A41).....	1	--
5	Diabetes mellitus (E10-E14).....	1	--
5	Intentional self-harm (suicide) (X60-X84, Y87.0)	1	--
5	Assault (homicide) (X85-Y09, Y87.1)	1	--
-	All other causes	11	5.4
Total		41	20.0

Rates not calculated for five or fewer deaths

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

**Fifteen Leading Causes of Death
Orange County Residents, 2000**
15 - 19 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate¹</u>
1	Accidents (V01-X59, Y85-Y86)	31	15.9
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	16	8.2
-	All other accidents	15	7.7
2	Assault (homicide) (X85-Y09, Y87.1)	11	5.6
3	Malignant neoplasms (C00-C97)	7	3.6
4	Intentional self-harm (suicide) (X60-X84, Y87.0)	5	2.6
5	Diseases of heart (I00-I09, I11, I13, I20-I51)	4	--
6	Diabetes mellitus (E10-E14)	2	--
7	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	1	--
7	Hernia of abdominal cavity & intestinal obstruction		
-	without hernia (K40-K46, K56).....	1	--
7	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	1	--
7	Congenital malformations & chromosomal abnormalities (Q00-Q99)	1	--
-	All other causes	7	3.6
Total		71	36.4

Rates not calculated for five or fewer deaths

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

Fifteen Leading Causes of Death

Orange County Residents, 2000

20 - 24 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate</u> ¹
1	Accidents (V01-X59, Y85-Y86)	42	22.0
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	22	11.5
-	All other accidents	20	10.5
2	Intentional self-harm (suicide) (X60-X84, Y87.0)	18	9.4
3	Malignant neoplasms (C00-C97)	11	5.8
4	Assault (homicide) (X85-Y09, Y87.1)	10	5.2
5	Congenital malformations & chromosomal abnormalities (Q00-Q99)	2	--
6	Human immunodeficiency virus (HIV) disease (B20-B24).....	1	--
6	Diseases of heart (I00-I09, I11, I13, I20-I51)	1	--
6	Influenza & pneumonia (J10-J18)	1	--
-	All other causes	7	3.7
Total		93	48.8

Rates not calculated for fewer than five deaths

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

Fifteen Leading Causes of Death

Orange County Residents, 2000

25 - 34 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate</u> ¹
1	Accidents (V01-X59, Y85-Y86)	77	16.5
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	40	8.5
-	All other accidents	37	7.9
2	Malignant neoplasms (C00-C97)	44	9.4
3	Intentional self-harm (suicide) (X60-X84, Y87.0)	42	9.0
4	Diseases of heart (I00-I09, I11, I13, I20-I51)	17	3.6
5	Assault (homicide) (X85-Y09, Y87.1)	13	2.8
6	Human immunodeficiency virus (HIV) disease (B20-B24).....	11	2.4
7	Cerebrovascular diseases (I60-I69)	8	1.7
8	Viral hepatitis (B15-B19).....	3	--
8	Diabetes mellitus (E10-E14)	3	--
8	Influenza & pneumonia (J10-J18)	3	--
8	Pregnancy, childbirth & the puerperium (O00-O99)	3	--
8	Congenital malformations & chromosomal abnormalities (Q00-Q99)	3	--
13	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	2	--
13	Aortic aneurysm & dissection (I71)	2	--
13	Chronic liver disease & cirrhosis (K70, K73-K74)	2	--
13	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	2	--
13	Legal intervention (Y35, Y89.0)	2	--
-	All other causes	32	6.8
Total		269	57.5

Rates not calculated for fewer than five deaths

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

Fifteen Leading Causes of Death

Orange County Residents, 2000

35 - 44 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate</u> ¹
1	Malignant neoplasms (C00-C97)	130	27.1
2	Accidents (V01-X59, Y85-Y86)	93	19.4
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	27	5.6
-	All other accidents	66	13.8
3	Diseases of heart (I00-I09, I11, I13, I20-I51)	73	15.2
4	Intentional self-harm (suicide) (X60-X84, Y87.0)	45	9.4
5	Human immunodeficiency virus (HIV) disease (B20-B24).....	23	4.8
5	Chronic liver disease & cirrhosis (K70, K73-K74)	23	4.8
7	Cerebrovascular diseases (I60-I69)	15	3.1
8	Diabetes mellitus (E10-E14)	10	2.1
9	Chronic lower respiratory diseases (J40-J47)	8	1.7
9	Congenital malformations & chromosomal abnormalities (Q00-Q99)	8	1.7
11	Assault (homicide) (X85-Y09, Y87.1)	5	1.0
12	Viral hepatitis (B15-B19)	4	--
12	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	4	--
14	Anemias (D50-D64)	3	--
14	Aortic aneurysm & dissection (I71)	3	--
14	Influenza & pneumonia (J10-J18)	3	--
-	All other causes	85	17.7
Total		535	111.7

Rates not calculated for fewer than five deaths

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

Fifteen Leading Causes of Death

Orange County Residents, 2000

45 - 54 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate</u> ¹
1	Malignant neoplasms (C00-C97)	336	92.8
2	Diseases of heart (I00-I09, I11, I13, I20-I51)	190	52.5
3	Accidents (V01-X59, Y85-Y86)	80	22.1
-	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	24	6.6
-	<i>All other accidents</i>	56	15.5
4	Intentional self-harm (suicide) (X60-X84, Y87.0)	50	13.8
5	Chronic liver disease & cirrhosis (K70, K73-K74)	47	13.0
6	Cerebrovascular diseases (I60-I69)	46	12.7
7	Diabetes mellitus (E10-E14)	32	8.8
8	Chronic lower respiratory diseases (J40-J47)	24	6.6
9	Viral hepatitis (B15-B19)	12	3.3
10	Human immunodeficiency virus (HIV) disease (B20-B24).....	8	2.2
11	Aortic aneurysm & dissection (I71)	6	1.7
11	Assault (homicide) (X85-Y09, Y87.1)	6	1.7
13	Peptic ulcer (K25-K28)	4	--
13	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	4	--
15	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	3	--
15	Influenza & pneumonia (J10-J18)	3	--
15	Complications of medical & surgical care (Y40-Y84, Y88)	3	--
-	All other causes	95	26.2
Total		949	262.1

Rates not calculated for fewer than five deaths

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

Fifteen Leading Causes of Death

Orange County Residents, 2000

55 - 64 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate</u> ¹
1	Malignant neoplasms (C00-C97)	660	292.8
2	Diseases of heart (I00-I09, I11, I13, I20-I51)	368	163.3
3	Cerebrovascular diseases (I60-I69)	80	35.5
4	Chronic lower respiratory diseases (J40-J47)	62	27.5
5	Diabetes mellitus (E10-E14)	52	23.1
6	Accidents (V01-X59, Y85-Y86)	50	22.2
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	17	7.5
-	All other accidents	33	14.6
7	Chronic liver disease & cirrhosis (K70, K73-K74)	48	21.3
8	Intentional self-harm (suicide) (X60-X84, Y87.0)	27	12.0
9	Influenza & pneumonia (J10-J18)	15	6.7
10	Viral hepatitis (B15-B19)	11	4.9
10	Aortic aneurysm & dissection (I71)	11	4.9
12	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	9	4.0
13	Human immunodeficiency virus (HIV) disease (B20-B24).....	8	3.5
14	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	6	2.7
15	Alzheimer's disease (G30)	5	2.2
15	Essential (primary) hypertension & hypertensive renal disease (I10, I12)	5	2.2
15	Assault (homicide) (X85-Y09, Y87.1)	5	2.2
-	All other causes	136	60.3
Total		1,558	691.2

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

Fifteen Leading Causes of Death

Orange County Residents, 2000

65 - 74 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate</u> ¹
1	Malignant neoplasms (C00-C97)	1,062	711.6
2	Diseases of heart (I00-I09, I11, I13, I20-I51)	791	530.0
3	Chronic lower respiratory diseases (J40-J47)	214	143.4
4	Cerebrovascular diseases (I60-I69)	165	110.6
5	Diabetes mellitus (E10-E14)	87	58.3
6	Influenza & pneumonia (J10-J18)	63	42.2
7	Chronic liver disease & cirrhosis (K70, K73-K74)	40	26.8
8	Accidents (V01-X59, Y85-Y86)	38	25.5
	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	13	8.7
-	<i>All other accidents</i>	25	16.8
9	Parkinson's disease (G20-G21)	23	15.4
10	Aortic aneurysm & dissection (I71)	22	14.7
11	Alzheimer's disease (G30)	20	13.4
11	Intentional self-harm (suicide) (X60-X84, Y87.0)	20	13.4
13	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	18	12.1
14	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	17	11.4
14	Essential (primary) hypertension & hypertensive renal disease (I10, I12)	17	11.4
-	All other	258	172.9
	Total	<u>2,855</u>	<u>1,912.9</u>

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

Fifteen Leading Causes of Death

Orange County Residents, 2000

75 - 84 years of age

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Rate ¹</u>
1	Diseases of heart (I00-I09, I11, I13, I20-I51)	1,648	1,676.0
2	Malignant neoplasms (C00-C97)	1,167	1,186.8
3	Cerebrovascular diseases (I60-I69)	453	460.7
4	Chronic lower respiratory diseases (J40-J47)	386	392.6
5	Influenza & pneumonia (J10-J18)	226	229.8
6	Diabetes mellitus (E10-E14)	126	128.1
7	Alzheimer's disease (G30)	110	111.9
8	Parkinson's disease (G20-G21)	71	72.2
9	Accidents (V01-X59, Y85-Y86)	63	64.1
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	20	20.3
-	All other accidents	43	43.7
10	Aortic aneurysm & dissection (I71)	46	46.8
11	Essential (primary) hypertension & hypertensive renal disease (I10, I12)	40	40.7
11	Chronic liver disease & cirrhosis (K70, K73-K74)	40	40.7
13	Atherosclerosis (I70)	38	38.6
14	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	30	30.5
15	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	24	24.4
-	All other	454	461.7
Total		4,922	5,005.7

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

Fifteen Leading Causes of Death

Orange County Residents, 2000

85 years of age and over

Rank	Cause of Death & ICD-10 Codes	Number	Rate ¹
1	Diseases of heart (I00-I09, I11, I13, I20-I51)	2,074	6,061.5
2	Cerebrovascular diseases (I60-I69)	568	1,660.0
3	Malignant neoplasms (C00-C97)	549	1,604.5
4	Influenza & pneumonia (J10-J18)	336	982.0
5	Chronic lower respiratory diseases (J40-J47)	252	736.5
6	Alzheimer's disease (G30)	176	514.4
7	Atherosclerosis (I70)	69	201.7
8	Essential (primary) hypertension & hypertensive renal disease (I10, I12)	67	195.8
9	Diabetes mellitus (E10-E14)	62	181.2
10	Accidents (V01-X59, Y85-Y86)	61	178.3
-	Motor vehicle accid. (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)	8	23.4
-	All other accidents	53	154.9
11	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	51	149.1
12	Parkinson's disease (G20-G21)	47	137.4
13	Aortic aneurysm & dissection (I71)	26	76.0
14	Peptic ulcer (K25-K28)	23	67.2
15	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	19	55.5
-	All other	519	1,516.8
Total		4,899	14,317.9

¹ Mortality rate is calculated per 100,000 Orange County population in this age group.

Section 2. Cause of Death by Gender

Cause of Death by Rank and Gender

Orange County Residents, 2000

Based on National Center of Health Statistics List of 113 selected Causes of Death

Rank			Cause of Death (ICD-10 code)	Number			Rate ¹		
Total	Male	Female		Total	Male	Female	Total	Male	Female
1	1	1	Diseases of heart (I00-I09, I11, I13, I20-I51)	5,181	2,505	2,676	181.4	176.3	186.4
-	-	-	Acute rheumatic fever & chronic rheumatic heart diseases (I00-I09)	32	10	22	1.1	0.7	1.5
-	-	-	Hypertensive heart disease (I11)	173	55	118	6.1	3.9	8.2
-	-	-	Hypertensive heart & renal disease (I13)	28	12	16	1.0	0.8	1.1
-	-	-	Ischemic heart diseases (I20-I25)	4,257	2,123	2,134	149.0	149.4	148.7
-	-	-	Acute myocardial infarction (I21-I22)	1,253	704	549	43.9	49.5	38.2
-	-	-	Other acute ischemic heart disease (I24)	8	3	5	0.3	--	0.3
-	-	-	Other forms of chronic ischemic heart disease (I20, I25)	2,996	1,416	1,580	104.9	99.6	110.1
-	-	-	Atherosclerotic cardiovascular disease, so described (I25.0)	506	222	284	17.7	15.6	19.8
-	-	-	All other forms of chronic ischemic heart disease (I20, I25.1-I25.9)	2,490	1,194	1,296	87.2	84.0	90.3
-	-	-	Other heart diseases (I26-I51)	691	305	386	24.2	21.5	26.9
-	-	-	Acute & subacute endocarditis (I33)	7	4	3	0.2	--	--
-	-	-	Diseases of pericardium & acute myocarditis (I30-I31, I40)	6	1	5	0.2	--	0.3
-	-	-	Heart failure (I50)	185	70	115	6.5	4.9	8.0
-	-	-	All other forms of heart disease (I26-I28, I34-I38, I42-I49, I51)	493	230	263	17.3	16.2	18.3
2	2	2	Malignant neoplasms (C00-C97)	3,992	2,022	1,970	139.7	142.3	137.2
-	-	-	Malignant neoplasms of lip, oral cavity & pharynx (C00-C14)	56	31	25	2.0	2.2	1.7
-	-	-	Malignant neoplasm of esophagus (C15)	98	72	26	3.4	5.1	1.8
-	-	-	Malignant neoplasm of stomach (C16)	110	70	40	3.9	4.9	2.8
-	-	-	Malignant neoplasms of colon, rectum and anus (C18-C21)	359	178	181	12.6	12.5	12.6
-	-	-	Malignant neoplasms of liver & intrahepatic bile ducts (C22)	146	103	43	5.1	7.2	3.0
-	-	-	Malignant neoplasm of pancreas (C25)	230	110	120	8.1	7.7	8.4
-	-	-	Malignant neoplasm of larynx (C32)	18	17	1	0.6	1.2	--
-	-	-	Malignant neoplasms of trachea, bronchus & lung (C33-C34)	981	497	484	34.3	35.0	33.7
-	-	-	Malignant melanoma of skin (C43)	70	43	27	2.5	3.0	1.9
-	-	-	Malignant neoplasm of breast (C50)	301	2	299	10.5	--	20.8

- Not ranked (only the broader category, which includes this item, is ranked)

-- Rates not calculated for fewer than five deaths

¹ Rates per 100,000 Orange County population

Orange County Mortality Data, 2000

Prepared by: County of Orange, Health Care Agency, Epidemiology and Assessment, November 2002

Rank			Cause of Death (ICD-10 code)	Number			Rate ¹		
Total	Male	Female		Total	Male	Female	Total	Male	Female
-	-	-	Malignant neoplasm of cervix uteri (C53)	22	--	22	0.8	--	1.5
-	-	-	Malignant neoplasms of corpus uteri & uterus, part unspecified (C54-C55)	46	--	46	1.6	--	3.2
-	-	-	Malignant neoplasm of ovary (C56)	117	--	117	4.1	--	8.2
-	-	-	Malignant neoplasm of prostate (C61)	223	223	--	7.8	15.7	--
-	-	-	Malignant neoplasms of kidney & renal pelvis (C64-C65)	100	62	38	3.5	4.4	2.6
-	-	-	Malignant neoplasm of bladder (C67)	104	76	28	3.6	5.3	2.0
-	-	-	Malignant neoplasms of meninges, brain & other parts of CNS (C70-C72)	129	70	59	4.5	4.9	4.1
-	-	-	Malig. neoplasms of lymphoid, hematopoietic & related tissues (C81-C96)	882	468	414	30.9	32.9	28.8
-	-	-	Hodgkin's disease (C81)	9	3	6	0.3	--	0.4
-	-	-	Non-Hodgkin's lymphoma (C82-C85)	169	89	80	5.9	6.3	5.6
-	-	-	Leukemia (C91-C95)	189	112	77	6.6	7.9	5.4
-	-	-	Multiple myeloma & immunoproliferative neoplasms (C88, C90)	66	34	32	2.3	2.4	2.2
-	-	-	Oth. & unspec. malig. neoplasms of lymphoid & related tissues (C96)	0	0	0	--	--	--
-	-	-	All other & unspecified malignant neoplasms (C17, C23-C24, C26-C31, C37-C41, C44-C49, C51-C52, C57-C60, C62-C63, C66, C68-C69, C73-C80, C97)	449	230	219	15.7	16.2	15.3
3	3	3	Cerebrovascular diseases (I60-I69)	1,338	504	834	46.8	35.5	58.1
4	4	4	Chronic lower respiratory diseases (J40-J47)	952	409	543	33.3	28.8	37.8
-	-	-	Bronchitis, chronic & unspecified (J40-J42)	10	3	7	0.4	--	0.5
-	-	-	Emphysema (J43)	127	65	62	4.4	4.6	4.3
-	-	-	Asthma (J45-J46)	43	13	30	1.5	0.9	2.1
-	-	-	Other chronic lower respiratory diseases (J44, J47)	772	328	444	27.0	23.1	30.9
5	6	5	Influenza and pneumonia (J10-J18)	652	272	380	22.8	19.1	26.5
-	-	-	Influenza (J10-J11)	11	6	5	0.4	0.4	0.3
-	-	-	Pneumonia (J12-J18)	641	266	375	22.4	18.7	26.1
6	5	7	Accidents (V01-X59, Y85-Y86)	567	365	202	19.8	25.7	14.1
-	-	-	Transport accidents (V01-V99, Y85)	233	157	76	8.2	11.0	5.3
-	-	-	Motor vehicle accid.(V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6,V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)....	198	131	67	6.9	9.2	4.7
-	-	-	Oth. land transp. accid.(V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3,V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9	17	10	7	0.6	0.7	0.5

- Not ranked (only the broader category, which includes this item, is ranked)

-- Rates not calculated for fewer than five deaths

¹ Rates per 100,000 Orange County population

Rank			Cause of Death (ICD-10 code)	Number			Rate ¹		
Total	Male	Female		Total	Male	Female	Total	Male	Female
-	-	-	Water, air, space, other & unspecified transport accidents (V90-V99, Y85)	18	16	2	0.6	1.1	--
-	-	-	Nontransport accidents (W00-X59, Y86)	334	208	126	11.7	14.6	8.8
-	-	-	Falls (W00-W19)	107	59	48	3.7	4.2	3.3
-	-	-	Accidental discharge of firearms (W32-W34)	4	4	0	--	--	--
-	-	-	Accidental drowning & submersion (W65-W74)	22	17	5	0.8	1.2	0.3
-	-	-	Accidental exposure to smoke, fire & flames (X00-X09)	7	4	3	0.2	--	--
-	-	-	Accidental poisoning & exposure to noxious substances (X40-X49)	135	89	46	4.7	6.3	3.2
-	-	-	Other & unspecified nontransport accidents (W20-W31, W35-W64, W75-W99, X10-X39, X50-X59, Y86)	59	35	24	2.1	2.5	1.7
7	7	8	Diabetes mellitus (E10-E14)	376	191	185	13.2	13.4	12.9
8	10	6	Alzheimer's disease (G30)	311	93	218	10.9	6.5	15.2
9	8	12	Intentional self-harm (suicide) (X60-X84, Y87.0)	236	175	61	8.3	12.3	4.2
-	-	-	Intentional self-harm (suicide) by firearms (X72-X74)	104	91	13	3.6	6.4	0.9
-	-	-	Intent'l self-harm (suicide) by oth. & unspec. means (X60-X71, X75-X84, Y87.0) .	132	84	48	4.6	5.9	3.3
10	9	11	Chronic liver disease & cirrhosis (K70, K73-K74)	208	134	74	7.3	9.4	5.2
-	-	-	Alcoholic liver disease (K70)	130	95	35	4.6	6.7	2.4
-	-	-	Other chronic liver disease & cirrhosis (K73-K74)	78	39	39	2.7	2.7	2.7
11	11	13	Parkinson's disease (G20-G21)	142	82	60	5.0	5.8	4.2
12	17	9	Essential (primary) hypertension & hypertensive renal disease (I10, I12)	132	42	90	4.6	3.0	6.3
13	13	13	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	120	60	60	4.2	4.2	4.2
-	-	-	Acute & rapidly progressive nephritic & nephrotic syndrome (N00-N01, N04) ...	2	1	1	--	--	--
-	-	-	Chronic glomerulonephritis, nephritis, nephritis not specified as acute						
-	-	-	or chronic, & renal sclerosis unspecified (N02-N03, N05-N07, N26)	4	1	3	--	--	--
-	-	-	Renal failure (N17-N19)	114	58	56	4.0	4.1	3.9
-	-	-	Other disorders of kidney (N25, N27)	0	0	0	--	--	--
14	19	10	Atherosclerosis (I70)	119	41	78	4.2	2.9	5.4
15	12	17	Aortic aneurysm & dissection (I71)	116	67	49	4.1	4.7	3.4
16	14	15	Congenital malformations & chromosomal abnormalities (Q00-Q99)	111	53	58	3.9	3.7	4.0
17	15	16	Certain conditions originating in the perinatal period (P00-P96)	97	45	52	3.4	3.2	3.6
18	20	18	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48) ..	73	39	34	2.6	2.7	2.4

- Not ranked (only the broader category, which includes this item, is ranked)

-- Rates not calculated for fewer than five deaths

¹ Rates per 100,000 Orange County population

Rank			Cause of Death (ICD-10 code)	Number			Rate ¹		
Total	Male	Female		Total	Male	Female	Total	Male	Female
19	17	21	Assault (homicide) (X85-Y09, Y87.1)	60	42	18	2.1	3.0	1.3
-	-	-	Assault (homicide) by firearms (X93-X95)	31	24	7	1.1	1.7	0.5
-	-	-	Assault (homicide) by other & unspecified means (X85-X92, X96-Y09, Y87.1)	29	18	11	1.0	1.3	0.8
20	21	19	Peptic ulcer (K25-K28)	56	27	29	2.0	1.9	2.0
21	16	25	Human immunodeficiency virus (HIV) disease (B20-B24)	53	43	10	1.9	3.0	0.7
22	22	20	Viral hepatitis (B15-B19)	38	19	19	1.3	1.3	1.3
23	23	22	Septicemia (A40-A41)	33	16	17	1.2	1.1	1.2
24	24	23	Cholelithiasis & other disorders of gallbladder (K80-K82)	27	13	14	0.9	0.9	1.0
25	28	23	Anemias (D50-D64)	18	4	14	0.6	--	1.0
26	26	26	Hernia (K40-K46)	15	6	9	0.5	0.4	0.6
27	28	27	Complications of medical & surgical care (Y40-Y84, Y88)	12	4	8	0.4	--	0.6
28	28	29	Tuberculosis (A16-A19)	8	3	5	0.3	--	0.3
-	-	-	Respiratory tuberculosis (A16)	7	3	4	0.2	--	--
-	-	-	Other tuberculosis (A17-A19)	1	0	1	--	--	--
28	32	28	Infections of kidney (N10-N12, N13.6, N15.1)	8	2	6	0.3	--	0.4
28	25	-	Hyperplasia of prostate (N40)	8	8	0	0.3	0.6	--
31	36	29	Nutritional deficiencies (E40-E64)	6	1	5	0.2	--	0.3
-	-	-	Malnutrition (E40-E46)	4	1	3	--	--	--
-	-	-	Other nutritional deficiencies (E50-E64)	2	0	2	--	--	--
31	32	31	Pneumonitis due to solids and liquids (J69)	6	2	4	0.2	--	--
33	30	34	Meningitis (G00, G03)	5	3	2	0.2	--	--
33	27	-	Pneumoconioses & chemical effects (J60-J66, J68)	5	5	0	0.2	0.4	--
33	32	32	Diseases of appendix (K35-K38)	5	2	2	0.2	--	--
36	36	34	Salmonella infections (A01-A02)	3	1	2	--	--	--
36	-	32	Pregnancy, childbirth & the puerperium (O00-O99)	3	0	3	--	--	--
-	-	-	Pregnancy with abortive outcome (O00-O07)	1	-	1	--	--	--
-	-	-	Other complications of pregnancy, childbirth & puerperium (O10-O99)	2	-	2	--	--	--
38	-	34	Meningococcal infection (A39)	2	0	2	--	--	--
38	32	-	Legal intervention (Y35, Y89.0)	2	2	0	--	--	--
39	-	37	Acute bronchitis & bronchiolitis (J20-J21)	1	0	1	--	--	--

- Not ranked (only the broader category, which includes this item, is ranked)

-- Rates not calculated for fewer than five deaths

¹Rates per 100,000 Orange County population
Orange County Mortality Data, 2000

Cause of Death by Gender, Unranked, by ICD-10 Code

Orange County Residents, 2000

National Center of Health Statistics List of 113 Selected Causes of Death

<u>Cause of Death (ICD-10 code)</u>	No. of Deaths			Rate ¹		
	Total	Male	Female	Total	Male	Female
All causes	16,487	7,883	8,604	577.1	554.6	599.4
Certain infectious & parasitic diseases (A00-B99).....	187	108	79	6.5	7.6	5.5
Salmonella infections (A01-A02)	3	1	2	--	--	--
Shigellosis and amebiasis (A03, A06)	0	0	0	--	--	--
Certain other intestinal diseases (A04, A07-A09)	14	7	7	0.5	0.5	0.5
Tuberculosis (A16-A19)	8	3	5	0.3	--	0.3
Respiratory tuberculosis (A16)	7	3	4	0.2	--	--
Other tuberculosis (A17-A19)	1	0	1	--	--	--
Whooping cough (A37)	0	0	0	--	--	--
Scarlet fever & erysipelas (A38, A46)	0	0	0	--	--	--
Meningococcal infection (A39)	2	0	2	--	--	--
Septicemia (A40-A41)	33	16	17	1.2	1.1	1.2
Syphilis (A50-A53)	0	0	0	--	--	--
Acute poliomyelitis (A80)	0	0	0	--	--	--
Arthropod-borne viral encephalitis (A83-A84, A85.2)	0	0	0	--	--	--
Measles (B05)	0	0	0	--	--	--
Viral hepatitis (B15-B19)	38	19	19	1.3	1.3	1.3
Human immunodeficiency virus (HIV) disease (B20-B24)	53	43	10	1.9	3.0	0.7
Malaria (B50-B54)	0	0	0	--	--	--
Other & unspecified infectious & parasitic diseases (A00, A05, A20-A36, A42- A44, A48-A49, A54-A79, A81-A82, A85.0-A85.1, A85.8, A86-B04, B06-B09, B25-B49, B55-B99)	36	19	17	1.3	1.3	1.2
Malignant neoplasms (C00-C97)	3,992	2,022	1,970	139.7	142.3	137.2
Malignant neoplasms of lip, oral cavity & pharynx (C00-C14)	56	31	25	2.0	2.2	1.7
Malignant neoplasm of esophagus (C15)	98	72	26	3.4	5.1	1.8
Malignant neoplasm of stomach (C16)	110	70	40	3.9	4.9	2.8
Malignant neoplasms of colon, rectum & anus (C18-C21)	359	178	181	12.6	12.5	12.6

-- Rates not calculated for fewer than 5 deaths.

¹ Rates per 100,000 Orange County population

Cause of Death (ICD-10 code)	No. of Deaths			Rate ¹		
	Total	Male	Female	Total	Male	Female
Malignant neoplasms of liver & intrahepatic bile ducts (C22)	146	103	43	5.1	7.2	3.0
Malignant neoplasm of pancreas (C25)	230	110	120	8.1	7.7	8.4
Malignant neoplasm of larynx (C32)	18	17	1	0.6	1.2	--
Malignant neoplasms of trachea, bronchus & lung (C33-C34)	981	497	484	34.3	35.0	33.7
Malignant melanoma of skin (C43)	70	43	27	2.5	3.0	1.9
Malignant neoplasm of breast (C50)	301	2	299	10.5	--	20.8
Malignant neoplasm of cervix uteri (C53)	22	0	22	0.8	--	1.5
Malignant neoplasms of corpus uteri & uterus, part unspecified (C54-C55)	46	0	46	1.6	--	3.2
Malignant neoplasm of ovary (C56)	117	0	117	4.1	--	8.2
Malignant neoplasm of prostate (C61)	223	223	0	7.8	15.7	--
Malignant neoplasms of kidney & renal pelvis (C64-C65)	100	62	38	3.5	4.4	2.6
Malignant neoplasm of bladder (C67)	104	76	28	3.6	5.3	2.0
Malignant neoplasms of meninges, brain & other parts of CNS (C70-C72)	129	70	59	4.5	4.9	4.1
Malignant neoplasms of lymphoid, hematopoietic & related tissues (C81-C96)	433	238	195	15.2	16.7	13.6
Hodgkin's disease (C81)	9	3	6	0.3	--	0.4
Non-Hodgkin's lymphoma (C82-C85)	169	89	80	5.9	6.3	5.6
Leukemia (C91-C95)	189	112	77	6.6	7.9	5.4
Multiple myeloma & immunoproliferative neoplasms (C88, C90)	66	34	32	2.3	2.4	2.2
Other & unspecified malignant neoplasms of lymphoid & related tissues (C96)	0	0	0	--	--	--
All other & unspecified malignant neoplasms (C17, C23-C24, C26-C31, C37-C41, C44- C49, C51-C52, C57-C60, C62-C63, C66, C68-C69, C73-C80, C97)	449	230	219	15.7	16.2	15.3
In situ neoplasms, benign neoplasms, & neoplasms of unknown behavior (D00-D48)	73	39	34	2.6	2.7	2.4
Anemias (D50-D64)	18	4	14	0.6	--	1.0
Diabetes mellitus (E10-E14)	376	191	185	13.2	13.4	12.9
Nutritional deficiencies (E40-E64)	6	1	5	0.2	--	0.3
Malnutrition (E40-E46)	4	1	3	--	--	--
Other nutritional deficiencies (E50-E64)	2	0	2	--	--	--
Meningitis (G00, G03)	5	3	2	0.2	--	--
Parkinson's disease (G20-G21)	142	82	60	5.0	5.8	4.2
Alzheimer's disease (G30)	311	93	218	10.9	6.5	15.2

-- Rates not calculated for fewer than 5 deaths.

¹ Rates per 100,000 Orange County population

Orange County Mortality Data, 2000

Prepared by: County of Orange, Health Care Agency, Epidemiology and Assessment, November 2002

Cause of Death (ICD-10 code)	No. of Deaths			Rate ¹		
	Total	Male	Female	Total	Male	Female
Major cardiovascular diseases (I00-I78)	6,946	3,176	3,770	243.1	223.5	262.6
Diseases of heart (I00-I09, I11, I13, I20-I51)	5,181	2,505	2,676	181.4	176.3	186.4
Acute rheumatic fever & chronic rheumatic heart diseases (I00-I09)	32	10	22	1.1	0.7	1.5
Hypertensive heart disease (I11)	173	55	118	6.1	3.9	8.2
Hypertensive heart & renal disease (I13)	28	12	16	1.0	0.8	1.1
Ischemic heart diseases (I20-I25)	4,257	2,123	2,134	149.0	149.4	148.7
Acute myocardial infarction (I21-I22)	1,253	704	549	43.9	49.5	38.2
Other acute ischemic heart disease (I24)	8	3	5	0.3	--	0.3
Other forms of chronic ischemic heart disease (I20, I25)	2,996	1,416	1,580	104.9	99.6	110.1
Atherosclerotic cardiovascular disease, so described (I25.0)	506	222	284	17.7	15.6	19.8
All other forms of chronic ischemic heart disease (I20, I25.1-I25.9)	2,490	1,194	1,296	87.2	84.0	90.3
Other heart diseases (I26-I51)	691	305	386	24.2	21.5	26.9
Acute & subacute endocarditis (I33)	7	4	3	0.2	--	--
Diseases of pericardium & acute myocarditis (I30-I31, I40)	6	1	5	0.2	--	--
Heart failure (I50)	185	70	115	6.5	4.9	8.0
All other forms of heart disease (I26-I28, I34-I38, I42-I49, I51)	493	230	263	17.3	16.2	18.3
Essential (primary) hypertension & hypertensive renal disease (I10, I12)	132	42	90	4.6	3.0	6.3
Cerebrovascular diseases (I60-I69)	1,338	504	834	46.8	35.5	58.1
Atherosclerosis (I70)	119	41	78	4.2	2.9	5.4
Other diseases of circulatory system (I71-I78)	176	84	92	6.2	5.9	6.4
Aortic aneurysm & dissection (I71)	116	67	49	4.1	4.7	3.4
Other diseases of arteries, arterioles & capillaries (I72-I78)	60	17	43	2.1	1.2	3.0
Other disorders of circulatory system (I80-I99)	51	25	26	1.8	1.8	1.8
Influenza & pneumonia (J10-J18)	652	272	380	22.8	19.1	26.5
Influenza (J10-J11)	11	6	5	0.4	0.4	0.3
Pneumonia (J12-J18)	641	266	375	22.4	18.7	26.1
Other acute lower respiratory infections (J20-J22)	1	0	1	--	--	--
Acute bronchitis & bronchiolitis (J20-J21)	1	0	1	--	--	--
Unspecified acute lower respiratory infection (J22)	0	0	0	--	--	--

-- Rates not calculated for fewer than 5 deaths.

¹ Rates per 100,000 Orange County population

Cause of Death (ICD-10 code)	No. of Deaths			Rate ¹		
	Total	Male	Female	Total	Male	Female
Chronic lower respiratory diseases (J40-J47)	952	409	543	33.3	28.8	37.8
Bronchitis, chronic & unspecified (J40-J42)	10	3	7	0.4	--	0.5
Emphysema (J43)	127	65	62	4.4	4.6	4.3
Asthma (J45-J46)	43	13	30	1.5	0.9	2.1
Other chronic lower respiratory diseases (J44, J47)	772	328	444	27.0	23.1	30.9
Pneumoconioses & chemical effects (J60-J66, J68)	9	5	4	0.3	0.4	--
Pneumonitis due to solids and liquids (J69)	2	2	0	--	--	--
Other diseases of respiratory system (J00-J06, J30-J39, J67, J70-J98)	129	70	59	4.5	4.9	4.1
Peptic ulcer (K25-K28)	56	27	29	2.0	1.9	2.0
Diseases of appendix (K35-K38)	5	2	3	0.2	--	--
Hernia (K40-K46)	15	6	9	0.5	0.4	0.6
Chronic liver disease & cirrhosis (K70, K73-K74)	208	134	74	7.3	9.4	5.2
Alcoholic liver disease (K70)	130	95	35	4.6	6.7	2.4
Other chronic liver disease & cirrhosis (K73-K74)	78	39	39	2.7	2.7	2.7
Cholelithiasis & other disorders of gallbladder (K80-K82)	27	13	14	0.9	0.9	1.0
Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	120	60	60	4.2	4.2	4.2
Acute & rapidly progressive nephritic & nephrotic syndrome (N00-N01, N04)	2	1	1	--	--	--
Chronic glomerulonephritis, nephritis, and nephritis not specified as acute or chronic, & renal sclerosis unspecified (N02-N03, N05-N07, N26)	4	1	3	--	--	--
Renal failure (N17-N19)	114	58	56	4.0	4.1	3.9
Other disorders of kidney (N25, N27)	0	0	0	--	--	--
Infections of kidney (N10-N12, N13.6, N15.1)	8	2	6	0.3	--	0.4
Hyperplasia of prostate (N40)	8	8	0	0.3	0.6	--
Inflammatory diseases of female pelvic organs (N70-N76)	0	0	0	--	--	--
Pregnancy, childbirth & the puerperium (O00-O99)	3	0	3	--	--	--
Pregnancy with abortive outcome (O00-O07)	1	0	1	--	--	--
Other complications of pregnancy, childbirth & puerperium (O10-O99)	2	0	2	--	--	--
Certain conditions originating in the perinatal period (P00-P96)	97	45	52	3.4	3.2	3.6
Congenital malformations & chromosomal abnormalities (Q00-Q99)	111	53	58	3.9	3.7	4.0
Symptoms, signs, abnormal clinical & lab findings NEC (R00-R99)	18	9	9	0.6	0.6	0.6

-- Rates not calculated for fewer than 5 deaths.

¹ Rates per 100,000 Orange County population

Cause of Death (ICD-10 code)	No. of Deaths			Rate ¹		
	Total	Male	Female	Total	Male	Female
All other diseases (residual) (D65-E07, E15-E34, E65-F99, G04-G12, G23-G25, G31-H93, K00-K22, K29-K31, K50-K66, K71-K72, K75-K76, K83-M99, N13.0-N13.5, N13.7-N13.9, N14, N15.0, N15.8-N15.9, N20-N23, N28-N39, N41-N64, N80-N98)	1,054	416	638	36.9	29.3	44.4
Accidents (V01-X59, Y85-Y86)	567	365	202	19.8	25.7	14.1
Transport accidents (V01-V99, Y85)	233	157	76	8.2	11.0	5.3
Motor vehicle accid.(V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6,V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	198	131	67	6.9	9.2	4.7
Other land transport accidents.(V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9	17	10	7	0.6	0.7	0.5
Water, air, space, other & unspecified transport accidents (V90-V99, Y85)	18	16	2	0.6	1.1	--
Nontransport accidents (W00-X59, Y86)	334	208	126	11.7	14.6	8.8
Falls (W00-W19).....	107	59	48	3.7	4.2	3.3
Accidental discharge of firearms (W32-W34)	4	4	0	--	--	--
Accidental drowning and submersion (W65-W74)	22	17	5	0.8	1.2	0.3
Accidental exposure to smoke, fire & flames (X00-X09)	7	4	3	0.2	--	--
Accidental poisoning & exposure to noxious substances (X40-X49)	135	89	46	4.7	6.3	3.2
Other & unspecified nontransport accidents (W20-W31, W35-W64, W75-W99, X10-X39, X50-X59, Y86)	59	35	24	2.1	2.5	1.7
Intentional self-harm (suicide) (X60-X84, Y87.0)	236	175	61	8.3	12.3	4.2
Intentional self-harm (suicide) by firearms (X72-X74)	104	91	13	3.6	6.4	0.9
Intentional self-harm (suicide) by other & unspecified means (X60-X71, X75-X84, Y87.0)	132	84	48	4.6	5.9	3.3
Assault (homicide) (X85-Y09, Y87.1)	60	42	18	2.1	3.0	1.3
Assault (homicide) by firearms (X93-X95)	31	24	7	1.1	1.7	0.5
Assault (homicide) by other & unspecified means (X85-X92, X96-Y09, Y87.1)	29	18	11	1.0	1.3	0.8
Legal intervention (Y35, Y89.0)	2	2	0	--	--	--
Events of undetermined intent (Y10-Y34, Y87.2, Y89.9)	28	18	10	1.0	1.3	0.7
Discharge of firearms, undetermined intent (Y22-Y24)	1	1	0	--	--	--
Other & unspecified events of undetermined intent (Y10-Y21, Y25-Y34, Y87.2, Y89.9)	27	17	10	0.9	1.2	0.7
Operations of war (Y36, Y89.1)	0	0	0	--	--	--
Complications of medical & surgical care (Y40-Y84, Y88)	12	4	8	0.4	--	0.6

-- Rates not calculated for fewer than 5 deaths.

¹ Rates per 100,000 Orange County population
Orange County Mortality Data, 2000

Prepared by: County of Orange, Health Care Agency, Epidemiology and Assessment, November 2002

Section 3.

Deaths by Race/Ethnicity

Number of Deaths by Race / Ethnicity Orange County Residents, 2000

Race / Ethnicity¹ of Decedent	Number	Percent of Total
Hispanic	1,555	9.4%
Non-Hispanic		
White	13,514	82.0%
Other Asian ²	732	4.4%
Southeast Asian ³	408	2.5%
African-American	205	1.2%
Native Hawaiian or Pacific Islander	37	0.2%
American Indian or Alaskan Native	21	0.1%
Unknown / Not Stated	15	0.1%
Total	16,487	

¹ American Indian or Alaskan Native, Black, Native Hawaiian or Pacific Islander, Other Asian, South East Asian, and White exclude Hispanic ethnicity. Hispanic includes any race category

² Other Asian includes Asian either Specified or Unspecified, Asian Indian, Chinese, Japanese, Filipino, and Korean.

³ Southeast Asian includes Cambodian, Hmong, Laotian, Thai, and Vietnamese.

Fifteen Leading Causes of Death
Non-Hispanic White
Orange County Residents, 2000

Rank	Cause of Death & ICD-10 Codes	Number	Percent
1	Diseases of heart (I00-I09, I11, I13, I20-I51)	4,443	32.9
2	Malignant neoplasms (C00-C97)	3,276	24.2
3	Cerebrovascular diseases (I60-I69)	1,077	8.0
4	Chronic lower respiratory diseases (J40-J47)	858	6.3
5	Influenza & pneumonia (J10-J18)	565	4.2
6	Accidents (V01-X59, Y85-Y86)	381	2.8
	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	117	0.9
-	<i>All other accidents</i>	264	2.0
7	Alzheimer's disease (G30)	288	2.1
8	Diabetes mellitus (E10-E14)	258	1.9
9	Intentional self-harm (suicide) (X60-X84, Y87.0)	180	1.3
10	Chronic liver disease & cirrhosis (K70, K73-K74)	142	1.1
11	Parkinson's disease (G20-G21)	130	1.0
12	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	108	0.8
13	Atherosclerosis (I70)	105	0.8
14	Aortic aneurysm & dissection (I71)	101	0.7
15	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	87	0.6
-	<i>All other</i>	1,515	11.2
	Total	13,514	100.0

Fifteen Leading Causes of Death

Hispanic

Orange County Residents, 2000

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Percent</u>
1	Diseases of heart (I00-I09, I11, I13, I20-I51)	341	21.9
2	Malignant neoplasms (C00-C97)	327	21.0
3	Accidents (V01-X59, Y85-Y86)	124	8.0
-	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	51	3.3
-	<i>All other accidents</i>	73	4.7
3	Cerebrovascular diseases (I60-I69)	124	8.0
5	Diabetes mellitus (E10-E14)	64	4.1
6	Congenital malformations & chromosomal abnormalities (Q00-Q99)	60	3.9
7	Certain conditions originating in the perinatal period (P00-P96)	48	3.1
8	Chronic liver disease & cirrhosis (K70, K73-K74)	46	3.0
9	Influenza & pneumonia (J10-J18)	42	2.7
10	Assault (homicide) (X85-Y09, Y87.1)	36	2.3
10	Chronic lower respiratory diseases (J40-J47)	36	2.3
12	Intentional self-harm (suicide) (X60-X84, Y87.0)	26	1.7
13	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	20	1.3
14	Human immunodeficiency virus (HIV) disease (B20-B24)	19	1.2
15	Alzheimer's disease (G30)	15	1.0
15	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	15	1.0
-	<i>All other</i>	212	13.6
Total		1,555	100.0

Fifteen Leading Causes of Death

Southeast Asian

Orange County Residents, 2000

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Percent</u>
1	Malignant neoplasms (C00-C97)	131	32.1
2	Diseases of heart (I00-I09, I11, I13, I20-I51)	100	24.5
3	Cerebrovascular diseases (I60-I69)	35	8.6
4	Accidents (V01-X59, Y85-Y86)	21	5.1
	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	13	3.2
-	<i>All other accidents</i>	8	2.0
4	Chronic lower respiratory diseases (J40-J47)	21	5.1
6	Diabetes mellitus (E10-E14)	12	2.9
6	Influenza & pneumonia (J10-J18)	12	2.9
8	Intentional self-harm (suicide) (X60-X84, Y87.0)	10	2.5
9	Chronic liver disease & cirrhosis (K70, K73-K74)	8	2.0
10	Viral hepatitis (B15-B19)	7	1.7
11	Assault (homicide) (X85-Y09, Y87.1)	4	1.0
12	Atherosclerosis (I70)	3	0.7
12	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	3	0.7
12	Certain conditions originating in the perinatal period (P00-P96)	3	0.7
15	Alzheimer's disease (G30)	2	0.5
15	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	2	0.5
15	Peptic ulcer disease (K25-K28)	2	0.5
15	Congenital malformations & chromosomal abnormalities (Q00-Q99)	2	0.5
-	All other	30	7.4
Total		408	100.0

Southeast Asian includes Cambodian, Hmong, Laotian, Thai, and Vietnamese.

Fifteen Leading Causes of Death

Other Asian

Orange County Residents, 2000

<u>Rank</u>	<u>Cause of Death & ICD-10 Codes</u>	<u>Number</u>	<u>Percent</u>
1	Diseases of heart (I00-I09, I11, I13, I20-I51)	216	29.5
2	Malignant neoplasms (C00-C97)	189	25.8
3	Cerebrovascular diseases (I60-I69)	82	11.2
4	Influenza & pneumonia (J10-J18)	28	3.8
5	Diabetes mellitus (E10-E14)	26	3.6
5	Accidents (V01-X59, Y85-Y86)	26	3.6
	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2).....	12	1.6
-	<i>All other accidents</i>	14	1.9
7	Chronic lower respiratory diseases (J40-J47)	23	3.1
8	Intentional self-harm (suicide) (X60-X84, Y87.0)	16	2.2
9	Congenital malformations & chromosomal abnormalities (Q00-Q99)	11	1.5
10	Chronic liver disease & cirrhosis (K70, K73-K74)	9	1.2
11	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	8	1.1
12	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	7	1.0
12	Essential (primary) hypertension & hypertensive renal dis. (I10, I12)	7	1.0
14	Tuberculosis (A16-A19).....	5	0.7
14	Viral hepatitis (B15-B19)	5	0.7
14	Parkinson's disease (G20-G21)	5	0.7
14	Aortic aneurysm & dissection (I71)	5	0.7
-	All other	64	8.7
	Total	<u>732</u>	<u>100.0</u>

Other Asian includes Asian Specified and Unspecified, Asian Indian, Chinese, Filipino, Japanese, and Korean.

Fifteen Leading Causes of Death

African-American

Orange County Residents, 2000

Rank	Cause of Death & ICD-10 Codes	Number	Percent
1	Diseases of heart (I00-I09, I11, I13, I20-I51)	61	29.8
2	Malignant neoplasms (C00-C97)	52	25.4
3	Cerebrovascular diseases (I60-I69)	18	8.8
4	Diabetes mellitus (E10-E14)	13	6.3
5	Certain conditions originating in the perinatal period (P00-P96)	8	3.9
5	Accidents (V01-X59, Y85-Y86)	8	3.9
	<i>Motor vehicle accid.</i> (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)....	3	1.5
-	<i>All other accidents</i>	5	2.4
7	Chronic lower respiratory diseases (J40-J47)	7	3.4
8	Human immunodeficiency virus (HIV) disease (B20-B24)	4	2.0
8	Intentional self-harm (suicide) (X60-X84, Y87.0)	4	2.0
10	Anemias (D50-D64).....	3	1.5
11	Chronic liver disease & cirrhosis (K70, K73-K74)	2	1.0
11	Nephritis, nephrotic syndrome & nephrosis (N00-N07, N17-N19, N25-N27)	2	1.0
11	Assault (homicide) (X85-Y09, Y87.1)	2	1.0
14	Viral hepatitis (B15-B19)	1	0.5
14	In situ neopl., benign neopl., & neoplasms of unknown behavior (D00-D48)	1	0.5
14	Alzheimer's disease (G30)	1	0.5
14	Atherosclerosis (I70)	1	0.5
14	Influenza & pneumonia (J10-J18)	1	0.5
14	Congenital malformations & chromosomal abnormalities (Q00-Q99)	1	0.5
-	All other	15	7.3
	Total	205	100.0

Section 4. Additional Tables

Fifteen Leading Causes of Death by Race/Ethnicity with Rates Orange County Residents, 2000

Cause of Death	All Races			White			Hispanic			Asian			African Am.		
	No.	Rate*	Rate	No.	Rate*	Rate	No.	Rate*	Rate	No.	Rate*	Rate	No.	Rate*	Rate
Diseases of heart (I00-I09, I11, I13, I20-I51)	5,181	181.4	237.7	4,443	303.4	256.9	341	38.8	168.0	316	82.0	169.1	61	142.6	365.8
Malignant neoplasms (C00-C97)	3,992	139.7	180.5	3,276	223.7	200.2	327	37.2	116.9	320	83.1	128.0	52	121.6	260.7
Cerebrovascular diseases (I60-I69)	1,338	46.8	61.2	1,077	73.5	61.5	124	14.1	58.3	117	30.4	63.6	18	42.1	111.5
Chronic lower respiratory diseases (J40-J47)	952	33.3	45.0	858	58.6	51.9	36	4.1	18.2	44	11.4	24.2	7	16.4	50.1
Influenza & pneumonia (J10-J18)	652	22.8	30.1	565	38.6	31.7	42	4.8	22.0	40	10.4	23.0	1	--	--
Accidents (V01-X59, Y85-Y86)	567	19.8	18.0	381	26.0	20.5	124	14.1	13.8	47	12.2	13.0	8	18.7	20.7
Motor vehicle accidents	198	6.9	6.2	117	8.0	6.9	51	5.8	5.1	25	6.5	5.9	3	--	--
All other accidents	369	12.9	11.8	264	18.0	13.6	73	8.3	8.8	22	5.7	7.1	5	11.7	13.0
Diabetes mellitus (E10-E14)	376	13.2	17.0	258	17.6	15.6	64	7.3	27.5	38	9.9	17.5	13	30.4	58.3
Alzheimer's disease (G30)	311	10.9	14.4	288	19.7	16.0	15	1.7	8.7	6	1.6	3.9	1	--	--
Intentional self-harm (suicide) (X60-X84, Y87.0)	236	8.3	7.4	180	12.3	9.6	26	3.0	2.7	26	6.8	7.1	4	--	--
Chronic liver disease & cirrhosis (K70, K73-K74)	208	7.3	8.2	142	9.7	7.8	46	5.2	15.3	17	4.4	6.1	2	--	--
Parkinson's disease (G20-G21)	142	5.0	6.8	130	8.9	7.6	7	0.8	3.7	5	1.3	3.4	0	--	--
Essential (prim.) hypert. & hypertensive renal dis. (I10, I12)	132	4.6	6.1	108	7.4	6.1	15	1.7	7.7	9	2.3	6.1	0	--	--
Nephritis, neph. synd. & nephrosis (N00-N07, N17-N19, N25-N27)	120	4.2	5.4	87	5.9	4.9	20	2.3	9.6	11	2.9	6.6	2	--	--
Atherosclerosis (I70)	119	4.2	5.5	105	7.2	5.9	8	0.9	5.3	4	--	--	1	--	--
Aortic aneurysm & dissection (I71)	116	4.1	5.3	101	6.9	5.9	9	1.0	3.5	6	1.6	3.6	0	--	--
Congenital malform. & chromosomal abnorm.(Q00-Q99)	111	3.9	3.4	37	2.5	2.5	60	6.8	3.9	13	3.4	4.0	1	--	--
Certain conditions originating in perinatal period(P00-P96)	97	3.4	3.1	36	2.5	3.2	48	5.5	3.3	4	--	--	8	18.7	19.1
In situ neopl., benign neopl., & neopl. of unk. beh.(D00-D48)	73	2.6	3.4	60	4.1	3.7	4	--	--	8	2.1	3.3	1	--	--
Assault (homicide) (X85-Y09, Y87.1)	60	2.1	1.9	13	0.9	0.8	36	4.1	3.9	8	2.1	2.6	2	--	--
Human immunodeficiency virus (HIV) disease (B20-B24)	53	1.9	1.0	29	2.0	1.1	19	2.2	1.4	0	--	--	4	--	--
Viral hepatitis (B15-B19)	38	1.3	1.4	15	1.0	0.8	9	1.0	1.8	12	3.1	3.5	1	--	--
Anemias (D50-D64)	18	0.6	0.7	13	0.9	0.7	1	--	--	1	--	--	3	--	--

* Rate per 100,000 Orange County population within specified racial/ethnic group

-- Rate not calculated for deaths fewer than five

Not among 15 leading causes of death

Deaths Due to Malignant Neoplasms with Race/Ethnicity and Gender Detail

Orange County Resident, 2000

	Rate ¹	All races		White		Hispanic		SE Asian		Oth. Asian		African Am.		Other ²		
		Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Malignant Neoplasms (C00-C97)	139.7	3,992	2022	1970	1,624	1,652	170	157	84	47	101	88	32	20	11	6
Trachea, bronchus & lung (C33-C34)	34.3	981	497	484	417	442	29	16	22	9	22	14	7	3	0	0
Colon, rectum & anus(C18-C21)	12.6	359	178	181	142	145	15	14	3	6	13	13	4	2	1	1
Breast ³ (C50)	10.5	301	2	299	2	254	0	28	0	3	0	7	0	6	0	1
Pancreas (C25)	8.1	230	110	120	91	103	6	9	5	1	8	5	0	2	0	0
Prostate (C61)	15.7	223	223	...	189	...	12	...	3	...	11	...	7	...	1	...
Lymphoid, hematopoietic & related tissues (C81-C96)	15.2	433	238	195	191	168	30	15	3	2	7	8	4	2	3	0
Hodgkin's disease (C81)	0.3	9	3	6	1	6	2	0	0	0	0	0	0	0	0	0
Non-Hodgkin's lymphoma (C82-C85)	5.9	169	89	80	74	73	8	6	2	0	2	1	1	0	2	0
Leukemia (C91-C95)	6.6	189	112	77	90	67	17	3	0	2	3	4	1	1	1	0
Multiple myeloma & immunoproliferative (C88, C90)	2.3	66	34	32	26	22	3	6	1	0	2	3	2	1	0	0
Other & unspec. lymphoid, hematop. & related tissue (C96)	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Liver and intrahepatic bile ducts (C22)	5.1	146	103	43	51	21	12	10	27	7	11	4	0	0	2	1
Meninges, brain & other parts of CNS (C70-C72)	4.5	129	70	59	52	47	14	10	2	2	0	0	2	0	0	0
Ovary (C56)	8.2	117	...	117	...	94	...	12	...	1	...	9	...	0	...	1
Stomach (C16)	3.9	110	70	40	43	32	8	2	9	3	8	3	2	0	0	0
Bladder (C67)	3.6	104	76	28	73	27	1	0	1	0	1	1	0	0	0	0
Kidney & renal pelvis (C64-C65)	3.5	100	62	38	52	28	6	5	2	1	2	2	0	1	0	1
Esophagus (C15)	3.4	98	72	26	63	20	4	4	0	0	3	1	1	1	1	0
Melanoma of skin (C43)	2.5	70	43	27	42	26	1	1	0	0	0	0	0	0	0	0
Lip, oral cavity & pharynx (C00-C14)	2.0	56	31	25	22	22	4	1	1	1	1	1	2	0	1	0
Corpus uteri and uterus, part unspecified (C54-C55)	3.2	46	...	46	...	40	...	2	...	2	...	1	...	1	...	0
Cervix uteri (C53)	1.5	22	...	22	...	12	...	3	...	3	...	4	...	0	...	0
Larynx (C32)	0.6	18	17	1	14	1	1	0	0	0	0	0	1	0	1	0
All other & unspecified malignant neoplasms	15.7	449	230	219	180	170	27	25	6	6	14	15	2	2	1	1

¹ Rate is calculated per 100,000 Orange County population. The rate is sex-specific when neoplasm is applicable to one gender.

² In this table Other includes Native Hawaiian and Pacific Islander, American Indian and Alaskan Native, and those who are not assigned to a previous category.

³ Due to the two male deaths from breast cancer the presented rate is for the whole population; women's breast cancer rate is 20.8 per 100,000.

... Category not applicable.

Deaths Due to External Causes with Age and Gender Detail
Orange County Residents, 2000

Cause of Death	Sex	Age Group													
		All Ages	Under 1 yr.	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total, external causes (V01-X59, Y85-Y89)	M	606	6	6	3	6	37	54	114	109	106	53	40	49	23
	F	299	3	7	8	5	10	18	27	41	37	31	24	40	48
	All	905	9	13	11	11	47	72	141	150	143	84	64	89	71
Intentional self-harm (suicide) (X60-X84, Y87.0)	M	175	0	0	0	1	3	13	34	34	39	16	15	18	2
	F	61	0	0	0	0	2	5	8	11	11	11	5	4	4
	All	236	0	0	0	1	5	18	42	45	50	27	20	22	6
Motor vehicle accidents (see ICD-10 codes at the end of table)	M	131	0	3	1	1	13	16	33	17	16	9	7	10	5
	F	67	0	0	4	2	3	6	7	10	8	8	6	10	3
	All	198	0	3	5	3	16	22	40	27	24	17	13	20	8
Accidental poisoning & exposure to noxious substances (X40-X49)	M	89	1	0	0	1	1	4	15	29	28	8	2	0	0
	F	46	0	0	0	0	0	2	5	11	12	6	5	4	1
	All	135	1	0	0	1	1	6	20	40	40	14	7	4	1
Falls (W00-W19)	M	59	1	0	0	0	0	4	3	6	5	5	7	14	14
	F	48	0	0	0	0	0	1	0	0	0	0	2	13	32
	All	107	1	0	0	0	0	5	3	6	5	5	9	27	46
Assault (homicide) (X85-Y09, Y87.1)	M	42	0	2	0	1	10	8	9	3	5	4	0	0	0
	F	18	0	2	0	0	1	2	4	2	1	1	3	1	1
	All	60	0	4	0	1	11	10	13	5	6	5	3	1	1
Other & unspecified non-transport accidents (W20-W31, W35-W64, W75-W99, X10-X39, X50-X59, Y86)	M	35	1	0	0	1	2	2	2	6	7	7	2	4	1
	F	24	1	3	4	1	0	0	0	1	0	4	0	5	5
	All	59	2	3	4	2	2	2	2	7	7	11	2	9	6
Undetermined intent - other & unspecified (Y10-Y21, Y25-Y34, Y89.9)	M	17	3	0	1	0	0	0	4	5	3	0	1	0	0
	F	10	2	0	0	0	0	1	2	2	1	0	0	0	2
	All	27	5	0	1	0	0	1	6	7	4	0	1	0	2
Accidental drowning & submersion (W65-W74)	M	17	0	1	1	0	4	1	4	3	0	0	2	1	0
	F	5	0	2	0	0	0	1	0	1	0	0	1	0	0
	All	22	0	3	1	0	4	2	4	4	0	0	3	1	0

(Table continued on next page)

Deaths Due to External Causes with Age and Gender Detail, continued

Cause of Death	Sex	Age Group													
		All Ages	Under 1 yr.	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Water, air, space, other & unspecified transport accidents (V90-V99, Y85)	M	16	0	0	0	0	1	2	4	1	2	2	3	1	0
	F	2	0	0	0	0	2	0	0	0	0	0	0	0	0
	All	18	0	0	0	0	3	2	4	1	2	2	3	1	0
Land transport accidents (other than motor vehicle (see ICD-10 codes at the end of table)	M	10	0	0	0	0	1	2	2	4	0	0	0	1	0
	F	7	0	0	0	1	2	0	0	2	2	0	0	0	0
	All	17	0	0	0	1	3	2	2	6	2	0	0	1	0
Complications of medical & surgical care (Y40-Y84, Y88)	M	4	0	0	0	0	0	0	0	0	1	1	1	0	1
	F	8	0	0	0	0	0	0	1	0	2	1	1	3	0
	All	12	0	0	0	0	0	0	1	0	3	2	2	3	1
Accidental exposure to smoke, fire & flames (X00-X09)	M	4	0	0	0	0	0	0	2	1	0	1	0	0	0
	F	3	0	0	0	1	0	0	0	1	0	0	1	0	0
	All	7	0	0	0	1	0	0	2	2	0	1	1	0	0
Accidental discharge of firearms(W32-W34)	M	4	0	0	0	1	2	1	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	4	0	0	0	1	2	1	0	0	0	0	0	0	0
Legal intervention (Y35, Y89.0)	M	2	0	0	0	0	0	0	2	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	2	0	0	0	0	0	0	2	0	0	0	0	0	0
Undetermined intent - discharge of firearms (Y22-Y24)	M	1	0	0	0	0	0	1	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	All	1	0	0	0	0	0	1	0	0	0	0	0	0	0

ICD-10 codes for motor vehicle accidents:

V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

ICD-10 codes for land transport accidents (other than motor vehicle accidents):

V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9 V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9

Deaths Due to Transport Accidents
Orange County Residents, 2000

	Tot.	Age groups												
		< 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-85	85+
Total, transport accident deaths (V01-V99, Y85).....	233	0	3	5	4	22	26	46	34	28	19	16	22	8
Occupant of car, pick-up truck, or van (V40-V59) in:	119	0	0	3	2	13	18	23	13	11	11	9	10	6
Collision with car, van or pick-up (V43, V53).....	46	0	0	0	1	3	5	5	4	6	4	5	8	5
Collision with heavy transp. vehicle or bus (V44, V54).....	5	0	0	0	0	0	1	3	0	1	0	0	0	0
Collision with railway vehicle (V45, V55).....	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Collision with stationary objects (V47, V57).....	37	0	0	0	1	7	8	6	4	3	3	4	1	0
Non-collision accidents (V48, V58).....	26	0	0	2	0	3	4	8	5	1	2	0	0	1
Other & unspecified accidents (V49, V59).....	4	0	0	1	0	0	0	1	0	0	1	0	1	0
Pedestrian (V01-V09)	51	0	3	1	1	3	0	10	14	4	4	3	6	2
Motor vehicle related (V02-V04, V09.0, V09.2).....	43	0	3	1	0	3	0	9	9	3	4	3	6	2
Railway (V05).....	6	0	0	0	1	0	0	1	3	1	0	0	0	0
Other and unspecified (V09.1, V09.3-V09.9).....	2	0	0	0	0	0	0	0	2	0	0	0	0	0
Motor cyclist (V20-V29).....	18	0	0	0	1	0	2	7	4	2	2	0	0	0
Occupant of aircraft (V95-V97).....	10	0	0	0	0	0	1	3	1	1	2	2	0	0
Pedal cyclist (V10-V19)	9	0	0	1	0	1	0	1	0	5	0	0	1	0
Person in unspecified other land transp. accid. (V89.9)....	7	0	0	0	0	2	2	1	0	1	0	0	1	0
Person in specified but unknown mode of transp. (V87).....	6	0	0	0	0	0	2	0	0	2	0	0	2	0
Sequelae of transport accident (Y85).....	6	0	0	0	0	2	1	0	0	1	0	1	1	0
Person in unspecified motor vehicle accidents (V89.2)....	2	0	0	0	0	0	0	0	1	0	0	0	1	0
Water transport accidents (V90-V94).....	2	0	0	0	0	0	1	0	1	0	0	0	0	0
Occupant of heavy transport vehicle (V60-V69).....	1	0	0	0	0	0	0	0	0	0	0	1	0	0
Occupant of off-road vehicle (V86).....	1	0	0	0	0	0	0	0	0	1	0	0	0	0
Animal rider or occupant of animal-drawn vehicle, (fall from or being thrown from in noncollision accid.) (V80.0)....	1	0	0	0	0	0	0	0	1	0	0	0	0	0
Driver of special construction vehicle (V85.0).....	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Occupant of 3-wheel motor vehicle (V30-V39).....	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Occupant of railway vehicle (V81).....	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Deaths Due to Intentional Self-Harm (Suicide)

By Method, Age, and Sex

Orange County Residents, 2000

Method	Sex	All	Age Group									
			10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
All methods (X60-X84, Y87)	M	175	1	3	13	34	34	39	16	15	18	2
	F	61	0	2	5	8	11	11	11	5	4	4
	Tot.	236	1	5	18	42	45	50	27	20	22	6
	Rate ¹	8.26	--	2.56	9.44	8.97	9.39	13.8	12.0	13.4	22.4	17.5
Firearms and explosives (X72-X75)	M	91	1	2	4	16	17	22	7	8	13	1
	F	13	0	0	1	4	3	2	2	1	0	0
	Tot.	104	1	2	5	20	20	24	9	9	13	1
	Rate ¹	3.64	--	--	2.62	4.27	4.17	6.63	4.0	6.03	13.2	--
Hanging, strangulation, suffocation (X70)	M	33	0	1	5	10	5	5	2	2	3	0
	F	21	0	2	2	2	3	3	3	2	3	1
	Tot.	54	0	3	7	12	8	8	5	4	6	1
	Rate ¹	1.89	--	--	3.67	2.56	1.67	2.21	2.2	--	6.1	--
Drugs and alcohol (X60-X65)	M	26	0	0	2	3	6	7	4	2	1	1
	F	16	0	0	1	1	3	5	5	1	0	0
	Tot.	42	0	0	3	4	9	12	9	3	1	1
	Rate ¹	1.47	--	--	--	--	1.88	3.31	4.0	--	--	--
Poisoning by gases, vapors, pesticides & unspecified chemicals(X66-X69)	M	10	0	0	1	1	3	2	1	2	0	0
	F	1	0	0	0	0	0	0	0	0	0	1
	Tot.	11	0	0	1	1	3	2	1	2	0	1
	Rate ¹	0.39	--	--	--	--	--	--	--	--	--	--
Jumping from a high place (X80)	M	6	0	0	0	4	1	1	0	0	0	0
	F	2	0	0	0	0	1	0	1	0	0	0
	Tot.	8	0	0	0	4	2	1	1	0	0	0
	Rate ¹	0.28	--	--	--	--	--	--	--	--	--	--
Sharp objects (X78)	M	2	0	0	0	0	1	1	0	0	0	0
	F	4	0	0	0	1	0	0	0	1	0	2
	Tot.	6	0	0	0	1	1	1	0	1	0	2
	Rate ¹	0.21	--	--	--	--	--	--	--	--	--	--
Drowning and submersion (X71)	M	2	0	0	1	0	0	0	1	0	0	0
	F	2	0	0	0	0	0	1	0	0	1	0
	Tot.	4	0	0	1	0	0	1	1	0	1	0
	Rate ¹	--	--	--	--	--	--	--	--	--	--	--
Jumping or lying before moving objects (X81)	M	2	0	0	0	0	1	0	1	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0
	Tot.	2	0	0	0	0	1	0	1	0	0	0
	Rate ¹	--	--	--	--	--	--	--	--	--	--	--
Intentional self harm by other means, specified and unspecified (X83-X84, Y87)	M	3	0	0	0	0	0	1	0	1	1	0
	F	2	0	0	1	0	1	0	0	0	0	0
	Tot.	5	0	0	1	0	1	1	0	1	1	0
	Rate ¹	--	--	--	--	--	--	--	--	--	--	--

Age groups under 10 not shown as there were no deaths due to intentional self-harm in year 2000 for these age groups.

-- Rates not calculated for individual age groups.

¹ Rate is calculated per 100,000 Orange County population and within each specific age group.

Deaths Due to Assault (Homicide)
Orange County Residents, 2000

Method	Sex	Total	Age Group											
			1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
All methods (X85-Y09, Y87.1)	M	42	2	0	1	10	8	9	3	5	4	0	0	0
	F	18	2	0	0	1	2	4	2	1	1	3	1	1
	Total	60	4	0	1	11	10	13	5	6	5	3	1	1
Firearms & explosives (X93-X96)	M	24	0	0	0	8	5	6	1	1	3	0	0	0
	F	7	0	0	0	0	1	3	0	0	0	2	1	0
	Total	31	0	0	0	8	6	9	1	1	3	2	1	0
Sharp objects (X99)	M	9	0	0	1	2	3	2	1	0	0	0	0	0
	F	3	0	0	0	1	0	0	2	0	0	0	0	0
	Total	12	0	0	1	3	3	2	3	0	0	0	0	0
Other & unspecified means (Y08-Y09)	M	5	2	0	0	0	0	1	1	1	0	0	0	0
	F	3	1	0	0	0	1	0	0	1	0	0	0	0
	Total	8	3	0	0	0	1	1	1	2	0	0	0	0
Oth. maltreatment synd. (incl. mental cruelty, phys. abuse, sexual abuse (excl. sexual assault by bodily force), torture (Y07)	M	0	0	0	0	0	0	0	0	0	0	0	0	0
	F	2	1	0	0	0	0	0	0	0	0	0	0	1
	Total	2	1	0	0	0	0	0	0	0	0	0	0	1
Hanging, strangulation & suffocation (X91)	M	0	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	1	0	0	0	0	0	0
	Total	1	0	0	0	0	0	1	0	0	0	0	0	0
Assault by smoke, fire & flames (X97)	M	0	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	0	0	0	0	0	1	0	0
	Total	1	0	0	0	0	0	0	0	0	0	1	0	0
Blunt objects (Y00)	M	1	0	0	0	0	0	0	0	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	1	0	0	0	0	0	0	0	1	0	0	0	0
Bodily force (unarmed brawl or fight) (Y04)	M	1	0	0	0	0	0	0	0	1	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	1	0	0	0	0	0	0	0	1	0	0	0	0
Sequelae of assault (Y87.1)	M	2	0	0	0	0	0	0	0	1	1	0	0	0
	F	1	0	0	0	0	0	0	0	0	1	0	0	0
	Total	3	0	0	0	0	0	0	0	1	2	0	0	0

Age group under 1 not shown as there were no deaths due to assault (homicides) reported in year 2000 for this age group.

Deaths Due to Firearm Discharge
Orange County Residents, 2000

	sex	Age Group*										
		all ages	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Firearm discharge, total (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)	M	122	2	12	11	24	19	23	10	7	13	1
	F	20	0	0	2	7	3	2	2	3	1	0
	All	142	2	12	13	31	22	25	12	10	14	1
Firearm used in suicide (X72 - X74)	M	91	1	2	4	16	18	22	7	7	13	1
	F	13	0	0	1	4	3	2	2	1	0	0
	All	104	1	2	5	20	21	24	9	8	13	1
Firearm used in homicide (X93-X95)	M	24	0	8	5	6	1	1	3	0	0	0
	F	7	0	0	1	3	0	0	0	2	1	0
	All	31	0	8	6	9	1	1	3	2	1	0
Firearm discharge, accidental (W32-W34)	M	4	1	2	1	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0
	All	4	1	2	1	0	0	0	0	0	0	0
Legal intervention involving firearm discharge (Y35.0)	M	2	0	0	0	2	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0
	All	2	0	0	0	2	0	0	0	0	0	0
Firearm use, undetermined intent (Y22-Y24)	M	1	0	0	1	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	0	0
	All	1	0	0	1	0	0	0	0	0	0	0

* There were no deaths associated with firearms for those in the 5-9 year age group and younger.

Appendix 1

Technical Notes

Cause-of-death classification and ranking

Beginning in 1999, the federal government and the State of California implemented significant changes in the method of coding underlying cause of death by adopting the International Classification of Diseases – Tenth Revision (ICD-10). ICD-10 provides significant benefits over ICD-9, the previous classification system, by using more expanded and detailed classifications of diseases. A consequence of the change in coding schemes is the moving of certain underlying causes of death from one major grouping to another. For example, transient cerebral ischemic attacks have been moved from *Diseases of the circulatory system* to *Diseases of the nervous system*.

The cause-of-death ranking used in this document is based on the Centers for Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS) list of 113 selected causes of death and the list's subsection of the 50 rankable causes of death. These rankings are the same as those used in the Federal and State of California mortality reports. For infant deaths, a separate list of 130 selected causes of infant death has been used with a subset of 71 rankable causes of infant death. When a rankable cause of death includes further sub-categories or individual diseases, only the broader category is ranked; its comprising detailed causes are not ranked. Category titles that begin with the words "other" or "all other" are not ranked. Additionally, the group titles *Major cardiovascular diseases* and *Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified* are not ranked.

Computation of rates

The rates used in various tables are per 100,000 Orange County population. In tables where causes of death are reported by either age group or by race/ethnicity group, the rates are based on 100,000 population within specific age or race/ethnicity groups. For example, cause-of-death rates for persons of Hispanic origin are based on the resident Hispanic population in Orange County.

Rates are not calculated where the number of deaths is fewer than five. Random variation in a given cause of death could produce misleading variations in mortality rates when the number of deaths is very small.

Infant deaths

The rate used for infant deaths is as follows:

(The number of deaths among children less than one year of age during the year) ÷ (The number of children aged less than one year in the population during the same year) x 100,000.

The more familiar measure, the infant mortality rate, is actually a ratio of the number of infant deaths divided by the number of live births during the year in question. Infant mortality rates are presented in the annual summary of natality data.

Age-adjusted rates vs. crude rates

Age is a leading risk factor for many causes of death. When comparing populations, such as the Orange County population with the United States population differences in age structure can account for some of the sometimes very large differences in the unadjusted (crude) rates. Age adjustment, also known as age standardization, is performed in order to remove the effect of age from the comparison. An age-adjusted rate is a summary number representing a weighted average of age-specific rates. The weights for each age group are provided by use of a “standard” population.

Beginning with the year 1999, the federal and state mortality reports use the year 2000 standard population, replacing the earlier 1940 standard population figures, when calculating age-adjusted rates. As a result, and because of the change from ICD-9 to ICD-10, age-adjusted rates in this report cannot be used for comparing present data with data published prior to 1999.

The adjustment weights used in this report were obtained from the NCHS and are listed in the following table ¹.

Age distribution and age-adjustment weights based on the 2000 U.S. population

Age Group	Number	Adjustment Weight
All Ages	1,000,000	1.000000
Under 1 year	13,818	0.013818
1 – 4 years	55,317	0.055317
5 – 14 years	145,565	0.145565
15 – 24 years	138,646	0.138646
25 – 34 years	135,573	0.135573
35 – 44 years	162,613	0.162613
45 – 54 years	134,834	0.134834
55 – 64 years	87,247	0.087247
65 – 74 years	66,037	0.066037
75 – 84 years	44,842	0.044842
85 years and over	15,508	0.015508

¹ Klein RJ, Schoenborn CA. Age Adjustment Using the 2000 Projected U.S. Population. No 20. Hyattsville, Maryland. National Center for Health Statistics, 2001.

Race/Ethnicity Categories

In this document race/ethnicity are separated into two different coding schemes. To be consistent with changes in the minimum required race categories as promulgated from the Federal government, the racial/ethnic categories used when calculating rates are as follows:

- Hispanic
- Non-Hispanic
 - White
 - African American
 - Asian
 - Native Hawaiian or Pacific Islander
 - Native American, Eskimo, and Aleut
 - Other / Unknown

The category for Asian includes the more specific categories of Asian, specified or unspecified, Asian Indian, Cambodian, Chinese, Hmong, Filipino, Japanese, Laotian, Korean, Thai and Vietnamese.

However, in other tables where population based rates are not calculated, a second coding scheme was used which is felt to better reflect the diverse population of Orange County. The following categories are used in the second scheme:

- Hispanic
- Non-Hispanic
 - White
 - African American
 - Southeast Asian
 - Other Asian
 - Native Hawaiian or Pacific Islander
 - Native American, Eskimo, and Aleut
 - Other/Unknown

In this scheme, Asian is separated into two groups, Southeast Asian which contains Cambodian, Hmong, Laotian, Thai and Vietnamese; and Other Asian which contains Asian Indian, Chinese, Filipino, Japanese, and Korean.

Quality of Cause of Death Data

The number of causes of death reported as *Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified* (ICD-10 Codes R00-R99) may be a rough indication of the quality of the death certificate data. If the size of this category is very small, it might mean that sufficient effort has been made to determine the underlying cause of death, thereby obviating the need to use a “catch-all” category when the cause of death has not been definitively established or reported. Among Orange County deaths, there were only 18 cases where this category was used representing a mere 0.1% of Orange County deaths. By comparison, this category comprises 1.3% of the deaths in the US.²

² Minino AM, Arias E, Kochanek KD, Murphy SL, Smith Bl. Deaths: Final Data for 2000. National vital statistics reports; vol 50 no 15 Hyattsville, Maryland: National Center for Health Statistics, 2002.

Appendix 2

Population Estimates

Orange County, July 1, 2000 estimates

Age Group	Total	Hispanic	White Only	African – American Only	AIAN Only	Asian Only	NHOPI Only	Other Only	Two or More Races	Residual
< 1 year	42,536	20,177	15,298	579	77	4,511	106	85	1,701	2
1-4 years	174,278	81,203	63,770	2,360	390	18,844	488	398	6,818	7
5-9 years	232,784	102,665	91,270	3,408	574	25,649	733	557	7,919	9
10-14 years	204,873	79,608	87,984	3,452	604	25,415	781	477	6,540	12
15-19 years	195,260	75,359	79,791	3,380	618	29,393	679	343	5,688	9
20-24 years	190,697	82,813	69,688	2,932	574	29,009	670	350	4,659	2
25-34 years	468,047	182,600	195,932	7,320	1,331	69,019	1,521	728	9,585	11
35-44 years	479,052	128,859	261,157	8,964	1,594	67,260	1,388	730	9,092	8
45-54 years	362,074	64,517	228,981	5,825	1,314	54,298	867	408	5,848	16
55-64 years	225,404	32,730	152,962	2,792	774	32,005	503	248	3,390	0
65-74 years	149,251	18,176	107,927	1,159	340	19,313	244	113	1,961	18
75-84 years	98,328	7,849	80,204	447	174	8,493	93	66	999	3
85+ years	34,216	2,250	29,400	162	50	2,016	13	22	297	6
Total	2,856,800	878,806	1,464,364	42,780	8,414	385,225	8,086	4,525	64,497	103

AIAN is American Indian and Alaskan Native

NHOPI is Native Hawaiian or Pacific Islander

The 2000 population estimates used to calculate rates in this report are arithmetically derived from the July 1 estimated population for Orange County³ and the April 1 Census population by race/ethnicity and age group. The April 1, 2000 Census age, sex and race/ethnicity distributions were used as weights (percentages) and applied to the July 1, 2000 estimates of the total Orange County population to provide the July 1, 2000 population estimates for age groups, sex, and race/ethnicity.

³ State of California, Department of Finance, Intercensal Estimates of the Population of California: State and Counties 1990-2000 July, Revised Report I 90-00 July. Sacramento, California, January 2002.